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THE

ASIATIC SOCIETY OF BOMBAY

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LIST

OF THE

SPECIMENS

OF

DIPTEROUS INSECTS

IN

THE COLLECTION

33135

OF THE

BRITISH MUSEUM.

PART V.

SUPPLEMENT I.

PRINTED BY ORDER OF THE TRUSTEES.
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INTRODUCTION.

THE principal object of the present Catalogue has been to give a complete list of the specimens of Dipterous Insects contained in the collection of the British Museum, indicating at the same time the peculiarities of each, as regards variations of character, locality, and the source from whence it has been derived. With this view, the different individuals of each species contained in the collection are indicated by the letters *a*, *b*, *c*, &c., following the name of the species and its synonymes, and the description, if it appeared to have been before undescribed.

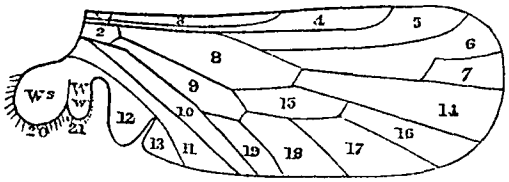
The Catalogue of Dipterous Insects has been prepared and the new species described by Mr. FRANCIS WALKER, F.L.S., so well known for his attention to this order of Insects.

This part contains a revision of the families *Stratiomidæ*, *Xylophagidæ* and *Tabanidæ*, with a description of the species added since the former parts were printed.

JOHN EDWARD GRAY.

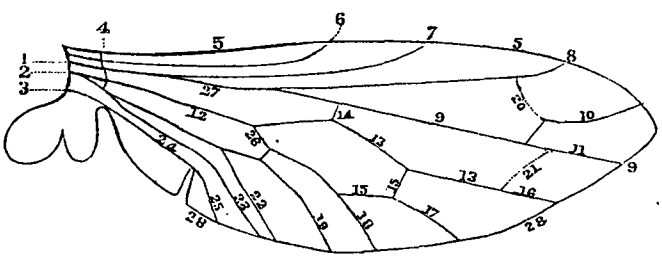
British Museum,
September, 1854.

Fig. A.—Areolets.



1. Humeral.
2. Radical.
3. Subcostal.
4. Mediastinal.
5. Radial.
6. Cubital, 1st.
7. Cubital, 2nd.
8. Præbrachial.
9. Pobrachial.
10. Anal.
11. Axillary.
12. Axillary lobe.
13. Subaxillary lobe.
14. Subapical.
15. Discal.
16—19. Exetrno-medial.
20. Subscutellar winglet.
21. Subaxillary winglet.

Fig. B.—Veins.



1. Humeral axis.
2. Conjugate axis.
3. Axillary vein.
4. Humeral veinlet.
5. Costa.
6. Mediastinal vein.
7. Subcostal vein.
8. Radial vein.
9. Cubital vein.
10. First branch vein.
11. Second branch vein.
12. Præbrachial vein.
13. Ditto (continued).
14. Median veinlet.
15. Discal veinlet.
16—19. Externo-medial veins, including subapical.
20. Subradial veinlet.
21. Subapical veinlet.
22. Subanal vein.
23. Anal vein.
24. Axillary vein.
25. Subaxillary vein.
26. Pobrachial veinlet.
27. Præfurca.
28. Posterior margin.

[*To face page* 1].

LIST OF DIPTERA.

SECOND SERIES.

PART I.

Class. DIPTERA.

Os suctorium, proboscide, setis inclusis, tarsisque. Tarsi pentameri. Alæ binæ; halteres bini pone alas.

Sub-class 1. PROBOSCIDEA.

Antennæ capitis fronte insertæ. Pedes approximati.

Proboscidea, *Latr.*

Order 1. BRACHYCERA.

Palpi porrecti, aut proboscide incumbentes, quasi exarticulati. Antennæ articulis post 3um connatis, vel extremis nimis attenuatis. Alarum areola analis ferme clausa; venæ posteriores ramosæ, vel anastomosi connexæ.

Brachocera (Hexachæta, Tetrachæta et Dichæta), *Macq. Hist. Nat. Dipt.* i. 183. *Westw.*
Brachycera (Polychæta et Dichæta), *Zett. Dipt. Scand.* i. 1, 3.

Family 1. STRATIOMIDÆ.

Caput sat magnum. Antennæ 5—10 articulatæ. Alæ completæ; vena costalis prope alæ apicem terminata; vena cubitalis furcata; areola analis longa. Halteres manifesti.

Stratiomydes, *Latr. Gen. Crust.; Fall.; Meig.; Macq.; Zett.*
Tetrachæta, p., *Macq. Hist. Nat. Dipt.* i. 218.
Notacantha, p., *Latr.; Macq. Hist. Nat. Dipt.* i. 220; *Perty; Westw.*
Xylophagii, p., *Meig.; Latr.; Macq.*
Xylophagidæ, p., *Steph.*
Stratiomidæ et Beridæ, *Westw.*
Stratiomida, *Perty.*
Xylophagina, p., *Perty.*
Xylophagi, p., et Stratiomydæ, *Loew.*
Polychæta, p., *Zett.*
Xylophagi, p., et Stratiomydæ, *Zett.*
Stratiomenæ, *Rondani.*
Tribe, Tabanidii. Sub-tribe, Stratiomydæ, *Bigot.*

The accompanying plate sufficiently illustrates the wing-veins of this family, which is especially characterized by the principal wing-veins being crowded together towards the costa, the discal areolet also is much in front of the middle of the wing, and the externo-medial veins are secondary, or are more or less faintly indicated. This structure is most apparent in the first, fourth and fifth groups of the ensuing arrangement, the other genera are abnormal, and may be separated from this family. *Xenomorpha* and *Exochostoma* are the most aberrant, on account of their simple cubital vein.

The transition of the structure of the antennæ of *Nemocera* to that of *Brachycera* begins with the *Stratiomidæ;* the joints after the second are no longer equal and equidistant, but are closely connected, and form one mass, and are generally considered as a single joint.

A. Antennarum articulus 3us simplex.
  A. Arista nulla aut brevis.
    a. Antennæ 10-articulatæ.
      d. Antennæ ramosæ. - - - - 1. Ptilocera.
      b. Antennæ simplices.
        i. Scutellum bituberculatum. - - 2. Exochostoma.
        ii. Scutellum 4—8 spinosum.
          1. Palpi clavati. - - - - - 3. Diphysa.
          2. Palpi subobsoleti. - - - - 4. Beris.
          3. Palpi longi. - - - - - 5. Actina.

iii. Scutellum bispinosum. - - 6. Cyphomyia.
iv. Scutellum muticum.
1. Frons non concava. Thorax capitis latitudine. - - - - - 7. Hermetia.
2. Frons concava. Thorax capite angustior. - - - - - - 8. Thorasena.

B. Antennæ 6—9 articulatæ.
a. Scutellum spinosum.
i. Scutellum quadrispinosum.
1. Antennarum flagellum elongatum, dilatatum. - - - - 9. Phyllophora.
2. Antennarum flagellum breve, conicum. 10. Acanthina.
ii. Scutellum bispinosum.
1. Antennarum arista indistincta.
* Antennæ apice attenuatæ. - 11. Stratiomys.
** Antennæ apice capitatæ. - - 12. Alliocera.
2. Antennarum arista distincta, biarticulata. - - - - - - 13. Clitellaria.
iii. Scutellum unispinosum.
1. Abdomen transversum - - - 14. Platyna.
b. Scutellum muticum.
i. Abdomen orbiculatum. - - - 15. Cyclogaster.
ii. Abdomen elongatum.
1. Antennæ pubescentes, non stylatæ. 16. Xenomorpha.
2. Antennæ glabræ, arista brevi villosa vel pubescente.
* Antennarum articulus 1us brevis. 17. Eudmeta.
** Antennarum articulus 1us elongatus. - - - - - - 18. Acrochæta.

B. Arista setiformis.
A. Scutellum bispinosum.
a. Antennarum flagellum fusiforme.
i. Abdomen rotundatum. - - - 19. Oxycera.
ii. Abdomen elongatum.
1. Arista dorsalis. - - - - 20. Hoplistes.
2. Arista terminalis. - - - 21. Dicranophora.
b. Antennarum flagellum subulatum. - 22. Rhaphiocera.
B. Scutellum muticum.
a. Epistoma porrectum.
i. Antennarum articulus ultimus longus, setiformis. - - - - - 23. Nemotelus.
ii. Antennarum articulus ultimus longus, linearis. - - - - - - 24. Biastes.
iii. Antennarum articulus ultimus brevissimus. - - - - - - 25. Metabasis.

b. Epistoma declive.
i. Scutellum bituberculatum. 26. Basentidema.
ii. Scutellum non tuberculatum.
1. Antennarum flagellum elongatum vel conicum.
* Antennarum arista gracilis, nuda. 27. Chrysochlora.
** Antennarum arista crassâ, basi pubescens. - - - - 28. Cacosis.
2. Antennarum flagellum rotundatum vel ellipticum.
* Antennæ 6-articulatæ - - - 29. Sargus.
** Antennæ 7-articulatæ. - - 30. Chrysomyia.
*** Antennæ 8-articulatæ.- - 31. Pachygaster.
B. Antennarum articulus 3us furcatus. - - 32. Chauna

The genera of this family present a great diversity of structure, and will form several groups or sub-families which are here indicated:—

Group 1.

Genera Ptilocera, Cyphomyia, Phyllophora, Acanthina, Platyna Clitellaria, Cyclogaster, Oxycera.

Group 2.

Beris, Actina, Diphysa, Exochostoma.

Group 3.

Hermetia, Thorasena, Eudmeta.

Group 4.

Stratiomys, Alliocera.

Group 5.

Basentidema? Nemotelus, Biastes, Metabasis.

Group 6.

Chrysochlora, Cacosis, Acrochæta, Sargus, Chrysomyia, Pachygaster, Hoplistes, Dicranophora, Rhaphiocera.

Group 7.

Chauna.

Group? 8.

Xenomorpha.

Genus 1. PTILOCERA.

Antennæ 10-articulatæ, ramosæ, non stylatæ; articulus 3us simplex. Scutellum quadrispinosum. Abdomen crassum, subcontractum.

Mediastinal vein ending at beyond half the length of the wing. Subcostal and radial ending at about two-thirds of the length. First branch of the cubital ending at a little beyond half the distance between the radial and the second branch which ends as far in front of the tip of the wing. Three complete externo-medial veins. Subanal vein joining the anal at some distance from the border. Median veinlet distinct, but very short. Discal areolet hexagonal.

Ptilocera, *Wied. Nov. Dipt. Gen.* 7; *Auss. Zweifl.* ii. 58; *Macq.*
Stratiomys, p., *Fabr.*

1. PTILOCERA SMARAGDINA.

Ptilocera smaragdina, *Cat. of Diptera*, Pt. 3, 525.

Philippine Islands.

2. PTILOCERA CONTINUA.

Ptilocera continua, *Diptera Saundersiana*, 2, 84.

Java.

3. PTILOCERA QUADRIDENTATA.

Nigra; thoracæ antice utrinque viridi-aureus; scutellum quadrispinosum; abdomen chalybeum, albo maculatum; alæ fuscæ, in mare fascia dilutiore.

Stratiomys quadridentata, *Fabr. Syst. Antl.* 86, 33.
Ptilocera quadridentata, *Wied. Nov. Dipt. Gen.* 7.

Sumatra. Java.

4. PTILOCERA LATERALIS.

Nigra; antennæ basi testaceæ; thorax albo bivittatus; abdominis latera testacea; alæ ad costam et apud venas nigricantes.

Ptilocera lateralis, *Macq. Dipt. Exot. Suppl.* i. 48, 1.
Hab. ——— ?

Genus 2. EXOCHOSTOMA.

Caput fere sphæricum. Palpi filiformes, triarticulati. Labrum breve, excavatum. Ocelli in triangulum dispositi. Oculi convexi, rotundati, nudi. Antennæ 10-articulatæ, flagello subuliformi; articulus 1us elongatus; 2us cyathiformis; 3us, 4us, 5us, et 6us breves, cylindrici; 7us longior, apice attenuatus; 8us, 9us, et 10us breves, graciles. Scutellum tuberculis duobus approximatis. Abdomen segmentis sex. Pedes graciles, fere nudi.

Exochostoma, *Macq. Ann. Soc. Ent. Fr.* xi. 42.

Cubital vein simple, ending on the fore border, far before the tip of the wing. Four incomplete externo-medial veins. Subanal vein joining the anal at some distance from the border. Median veinlet distinct.

1. EXOCHOSTOMA NITIDA.

Nigra, nitida; tibiæ flavæ; alæ nigricantes.

Exochostoma nitida, *Macq. Ann. Soc. Ent. Fr.* xi. 43, pl. 4, Pt. 2, f. 1—6.

Provence.

Genus 3. DIPHYSA.

Palpi brevissimi. Antennæ 10-articulatæ, capite longiores; flagellum sublineare, non stylatum. Scutellum quadrispinosum.

Xylophagus, p., *Wied.*
Diphysa, *Macq. Dipt. Exot.* i. 1, 172.
Beris, p., *Loew.*

Mediastinal vein ending at far beyond half the length of the wing. Subcostal and radial ending at about three-fourths of the length. First branch of the cubital short, slightly curved, ending at much before half the distance between the radial and the tip of the second branch which is some little distance in front of the tip of the wing. First, second and fourth externo-medial veins complete; third incomplete. Subanal vein very robust, joining the anal at some distance from the border. Median veinlet distinct, short. Discal areolet heptagonal.

1. Diphysa spiniger.

Xylophagus spiniger, *Wied. Cat. Dipt. Brit. Mus.*
Beris Servillei, *Macq. Dipt. Exot.* i. 1, 172, 1, pl. 21, f. 1; *Suppl.* i. 47, 1.

a—f. Auckland, New Zealand. Presented by Col. Bolton.

2. Diphysa apicalis.

Diphysa apicalis, *Cat. Dipt. Brit. Mus.*

a—f. Auckland, New Zealand. Presented by Col. Bolton.

3. Diphysa? rufipalpis.

Nigra; antennæ articulo 3o basi fulvo; scutellum quadrispinosum; pedes nigro-picei, tarsis posticis femoribusque basi albo-flavis, tarsis anticis fulvescentibus; alæ maculis duabus fuscis.

Xylophagus rufipalpis, *Wied. Auss. Zweifl.* ii. 619, 10.
Diphysa rufipalpis, *Macq. Dipt. Exot.* i. 1, 172.
Beris rufipalpis, *Loew, Ent. Zeit. Stett.* vi. 306, 13.

Mexico.

4. Diphysa? sexspinosa.

Cærulea; thorax flavo bivittatus, scutello sexspinoso; alæ fuscanæ, stigmate flavido.

Diphysa? sexspinosa, *Macq. Dipt. Exot. Suppl.* i. 46, 1, pl. 5, f. 1.
Brazil.

Genus 4. BERIS.

Palpi fere obsoleti. Antennæ subfusiformes, non stylatæ; flagellum subconicum. Scutellum plerumque spinis 4—8 armatum.

Beris, *Latr. Gen. Crust.; Meig.; Wied.; Macq.; Curt.; Zett.*
Musca, p., *Linn.; Forster; Fabr.; Schr.*
Stratiomys, p., *Fabr.; Forster; Gmel.; Geoffr.; Panz.; Fall.*
Actina, p., *Meig.; Klass.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at a little beyond the mediastinal. Radial ending at three-fourths of the length. First branch of the cubital straight or nearly so, ending at before half the distance between the radial and the tip of the second branch, which is very little in front of the tip of the wing. Præbrachial ending at a little behind the tip by means of the first externo-medial, second and fourth externo-medial complete, subanal united to the anal at some distance from the border, and thus closing the anal areolet. Discal veinlets forming two sides of the pentagonal or hexagonal discal areolet. Median veinlet distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and three externo-medial areolets complete. Axillary lobe and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

Europe.

1. BERIS CLAVIPES.

Nigra; abdomen luteum; pedes flavi, tarsis fuscis; alæ fuliginosæ.

Musca clavipes, *Linn.*
Beris clavipes, *Loew, Isis*, 1840, 518.

a—f. England. From Mr. Stephens' collection.
g. Chepstow. Presented by F. Walker, Esq.
h. Interlacken, Switzerland. Presented by F. Walker, Esq.

2. BERIS VALLATA.

Nigra; abdomen luteum; pedes flavi, tibiis apice tarsisque flavis; alæ maris *fuscescentes,* fœminæ *hyalinæ.* B. M.

Musca vallata, *Forster.*
Beris vallata, *Loew, Isis*, 1840, 518.

a—f. England. From Mr. Stephens' collection.
g. Chepstow. Presented by F. Walker, Esq.

3. Beris chalybeata.

Æneo-viridis; abdomen nigrum; pedes fulvi, femoribus fuscis; alæ fuscæ.

Musca chalybeata, *Forster.*

a—f. England. From Mr. Stephens' collection.

4. Beris fuscipes.

Nigra; scutellum æneum; pedes fusci, tibiis tarsisque nonnunquam flavis; alæ fuscescentes.

Beris fuscipes, *Meig.*

Germany.

a, b. England. From Mr. Stephens' collection.

5. Beris Morrisii.

Cyaneo-viridis; frons fœminæ *angusta; scutellum spinis nigris; abdomen nigro-cupreum; pedes flavi, tarsorum articulis 2o ad 5um fuscis.*

Beris Morrisii, *Dale, Entomologist*, 175.
Beris pallipes, *Loew, Ent. Zeit. Stett.* vi. 284, 5.

England.

6. Beris dubia.

Mas. *Ænea; caput, scutelli radii sex abdomenque glabrum, nigra; pedes fusci, geniculis tarsisque basi flavis; alæ fusco-hyalinæ; halteres pallidi.*

Beris dubia, *Zett. Ins. Lapp.* 512, 1; *Dipt. Scand.* i. 132, 1. *Loew, Ent. Zeit. Stett.* vi. 286, 6.

Sweden. Lapland.

7. Beris geniculata.

Cyaneo-viridis; caput nigro-viride; antennarum articulus 3us ferrugineus; scutellum spinis viridibus; abdomen nigrum; pedes nigri, genubus fulvis; alæ maris *nigricantes,* fœminæ *cinereæ.*

Beris geniculata, *Haliday; Curt. Brit. Ent.* 337.

a. England. From Mr. Stephens' collection.

North America.

8. Beris quadridentata.

Beris quadridentata, *Cat. of Diptera,* Pt. 1, 127.

9. Beris lata.

Beris lata, *Cat. of Diptera,* Pt. 1, 127.

10. Beris brevis.

Beris brevis, *Cat. of Diptera,* Pt. 1, 127.

11. Beris viridis.

Viridi-ænea; antennæ flavæ, apice nigro-fuscæ; scutellum spinis quatuor flavis; abdomen nigro-fuscum, flavo marginatum; pedes flavi, tarsis basi et tibiis posticis apice fuscis; alæ hyalinæ, basi flavescentes.

Beris viridis, *Say, Long's Exped. to St. Peter's River, Append.* 368, 1. *Wied. Auss. Zweifl.* i. 83, 2. *Loew, Ent. Zeit. Stett.* vi. 305, 10.

Pennsylvania.

12. Beris dorsalis.

Nigra; antennæ basi flavescentes; abdomen basi medio flavidum; pedes flavidi, tibiis anticis et posticis supra nigro-fuscis; alæ apud costam fuscæ.

Sargus dorsalis, *Say, Long's Exped. Append.* 377, 4.
Beris dorsalis, *Weid. Auss. Zweifl.* i. 540, 3. *Loew, Ent. Zeit. Stett.* vi. 306, 11.

Pennsylvania.

South America.

A. Thorax metallicus.
a. Tibiæ flavæ - - - - - - B. tricolor, *Wied.*
b. Tibiæ nigræ. - - - - - B. albitarsis, *Macq.*
B. Thorax niger. - - - - - B. Guerinii, *Macq.*

13. BERIS TRICOLOR.

Viridi-ænea; antennæ fulvæ, basi apiceque nigræ; scutellum quadrispinosum; abdomen fuscum; pedes flavi, tibiæ posticæ apice fuscæ, tarsi antici fusci, basi albidi; alæ infumatæ.

Beris tricolor, *Wied. Auss. Zweifl.* i. 83, 1, 575. *Loew, Zeit. Stett.* vi. 305, 9.

Brazil.

a. South America. From Mr. Saunders' collection.

14. BERIS ALBITARSIS.

Mas. *Violacea; scutellum quadrispinosum; abdomen fulvum, apice fuscum; pedes nigri, femoribus fulvis, tarsis basi albis; alæ fuscæ.*

Beris albitarsis, *Macq. Dipt. Exot. Suppl.* i. 47, 3.

Venezuela, Colombia.

15. BERIS GUERINII.

Nigra; scutellum octospinosum; alæ fuscæ, basi luteæ; halteres flavi.

Beris Guerinii, *Macq. Dipt. Exot. Suppl.* i. 48, 4. pl. 5, f. 4.

South America.

Asia.

16. BERIS JAVANA.

Mas. *Nigro-fusca, cyanescens; scutellum spinis quatuor fulvis armatum; pedes fulvi, tarsis posticis gracilibus; alæ costa subfuscæ.*

Beris javana, *Macq. Dipt. Exot.* i. 2, 188.

Australia, New Zealand.

A. Abdomen metallicum.
A. Antennæ fuscæ, basi testaceæ. - - quinquecella, *Macq.*
B. Antennæ nigræ. - - - - - substituta, *Walk.*
B. Abdomen fulvum. - - - - - incisuralis, *Macq.*

17. BERIS QUINQUECELLA.

Mas. *Violacea; scutellum quadrispinosum; antennæ fuscæ, basi testaceæ; pedes fulvi; alæ areolis quinque posticis.*

Beris quinquecella, *Macq. Dipt. Exot. Suppl.* i. 47, 2, pl. 5, f. 2.
Tasmania.

18. BERIS SUBSTITUTA.

Fœm. *Viridis aut æneo-viridis; antennæ nigræ; palpi testacei; scutellum spinis quatuor fulvis; abdomen purpureo-cupreum; pedes fulvi, femoribus tibiisque fusco fasciatis; alæ subcinereæ, stigmate venisque nigris.*

Dull green or æneous green. Antennæ black. Palpi testaceous. Scutellum with four tawny spines. Abdomen purplish cupreous. Legs tawny; femora and tibiæ with brown bands. Wings grayish; stigma and veins black. Length of the body 2 lines; of the wings 3¾ lines.

This species has three externo-medial veins, and the first branch of the cubital vein is very short, proceeds almost directly to the border, and thus forms an unusually large angle with the second branch. In this character it differs more than *Actina* from most of the species of *Beris*.

a—d. Auckland, New Zealand. Presented by Col. Bolton.

19. BERIS INCISURALIS.

Fœm. *Viridi-ænea; antennæ nigræ, basi testaceo variæ; scutellum sexspinosum; abdomen fulvum, apice incisurisque nigris; pedes fulvi, femoribus apice tibiisque posticis nigris, tarsis fuscis; alæ subfuscescentes.*

Beris incisuralis, *Macq. Dipt. Exot. Suppl.* ii. 28, 5.
New Holland.

Genus 5. ACTINA.

Stratiomys, p., *Forster.*
Actina, p., *Meig. Klass. Zweifl.*
Xylophagus, p., *Latr.*
Beris, p., *Meig.; Macq.; Loew.*
Actina, *Curt. Brit. Ent.* 337.

Palpi longi. Antennæ subfusiformes, non stylatæ; flagellum subconicum. Scutellum spinis armatum.

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at a little beyond the mediastinal. Radial ending at two-thirds of the length. First branch of the cubital straight or slightly curved, and variable also in its length and in the angle which it forms with the second branch, which ends at a little in front of the tip of the wing. Præbrachial or first externo-medial ending at a little behind the tip. Second and fourth externo-medial complete, third abbreviated, or rudimentary. Subanal united to the anal at some distance from the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, anal, axillary, subapical, discal, and three externo-medial areolets complete, as are also the axillary and the subaxillary lobes. Subapical areolet occupying the tip of the wing.

1. ACTINA TIBIALIS.

Æneo-viridis; scutellum flavo spinosum; abdomen nigrum; pedes flavi, tibiis posticis fuscis; alæ subfuscescentes, ad costam obscuriores.

Beris tibialis, *Meig.*

a—f. England. From Mr. Stephens' collection.
g. Chepstow. Presented by F. Walker, Esq.

2. ACTINA OPPOSITA.

Mas. *Cyaneo-viridis, albo-tomentosa; palpi flavi; antennæ fulvæ, apice nigræ; scutellum spinis testaceis; abdomen testaceum, segmentorum marginibus posticis maculisque lateralibus trigonis apiceque nigris; pedes testacei, femoribus posticis apice fuscis, tibiis posticis fulvo cinctis; alæ limpidæ.*

Antennæ tawny, black towards the tips. Palpi pale yellow. Thorax bright bluish green, with whitish down; scutellum with testaceous spines. Abdomen testaceous; segments black along the hind borders and with a triangular black spot on each side; tip black. Legs testaceous; tips of the hind femora brown; hind tibiæ brown with a tawny middle band. Wings limpid; stigma testaceous. Length of the body 3 lines; of the wings 6 lines.

This species much resembles *A. tibialis*, but is larger, and sufficiently distinct in other characters, and especially in the branch of the cubital vein which is longer, and more oblique and curved, and resembles that of most species of *Beris*.

a Auckland, New Zealand. Presented by Col. Bolton.

3. Actina similis.

Chalybea; abdomen nigro-cæruleum; pedes nigri, femoribus fœm. *basi plus minusve flavis; alæ fuscæ, ad costam nigro-fuscæ.*

Stratiomys similis, *Forster*.

This species has the third externo-medial rudimentary, and thus has most resemblance to the species of *Beris* in which it is wholly wanting. It is mentioned as British erroneously in the first 'Catalogue of Diptera.'

France. Germany. Sicily.

a. Interlacken, Switzerland. Presented by F. Walker, Esq.

Genus 6. CYPHOMYIA.

Antennæ 10-articulatæ, simplices, non stylatæ; articulus 3us simplex. Scutellum sæpissime bispinosum.

Cyphomyia, *Wied. Zool. Mag.* iii.; *Auss. Zweifl.* ii. 54; *Latr.; Macq.*

Stratiomys, p., *Fabr.; Coqueb.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at very little beyond the mediastinal. Radial ending before two-thirds of the length. First branch of the cubital straight, short, ending at about half the distance between the radial and the second branch which ends at some distance in front of the tip of the wing. Four complete nearly straight externo-medial veins. Subanal vein united to the anal at some distance from the

border. Discal veinlets forming two sides of the oblong hexagonal discal areolet. Median veinlet distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and four externo-medial areolets complete, as are also the axillary and the subaxillary lobes. Subapical areolet occupying the tip of the wing.

Mexico.

1. CYPHOMYIA ELEGANS.

Nigra; frons aurantiaca; thorax vittis duabus et abdomen limbo viridibus; scutellum et pedes flava; alæ subflavescentes.

Cyphomyia elegans, *Wied. Auss. Zweifl.* ii. 58, 8.

South America.

A. Thorax niger.
  A. Abdomen metallicum.
    A. Alæ nigro-fuscæ.
      a. Caput album. - - - leucocephala, *Hoffm.*
      b. Caput nigrum. - - - - - Coprates, *Walk*
    B. Alæ fuscescentes. - - - - albitarsis, *Fabr.*
    C. Alæ fuscæ, basi maculaque hyalinis. - fenestrata, *Macq.*
    D. Alæ cinereæ. - - - - inermis, *Wied.*
    E. Alæ hyalinæ. - - - - - fascipes, *Walk.*
    A. Scutellum inerme.
    B. Scutellum armatum.
      a. Caput ferrugineum. - - - maculata, *Fabr.*
      b. Caput nigrum. - - - - claripennis, *Macq.*
  B. Abdomen fulvum. - - - - costalis, *Walk.*
B. Thorax metallicolor.
  A. Thorax vitta aurato.
    A. Alæ nigræ. - - - - - auriflamma, *Hoffm.*
    B. Alæ fuscæ. - - - - - chrysodota, *Perty.*
  B. Thorax non aureo vittatus.
    A. Alæ cinereæ.
      a. Antennæ nigræ. - - - - aurifrons, *Wied.*
      b. Antennæ fulvæ. - - - - ornata, *Walk.*
    B. Alæ fuscæ. - - - - - - cyanea, *Fabr.*

2. Cyphomyia leucocephala.

Nigra; caput flavido-album; thorax vittis tribus fasciaque postica albis; abdomen chalybeum, albo maculatum; tarsi antici basi flavido-albi; alæ nigro-fuscæ.

Cyphomyia leucocephala, *Hoffm. Wied. Zoolog. Mag.* iii. 55, 22; *Auss. Zweifl.* ii. 55, 2. *Macq. Dipt. Exot.* i. 1, 175, 1.
Clitellaria albicaput, *Walk. Cat. Dipt. B. M.* 3, 521.

3. Cyphomyia Coprates.

Clitellaria Coprates, *Walk. Cat. Dipt. B. M.* 3, 523.

4. Cyphomyia albitarsis.

Anthracina; caput flavum; antennæ nigræ; thorax albo trivittatus; abdomen chalybeum maculis albis; tarsi basi albi; alæ fuscescentes.

Stratiomys albitarsis, *Fabr. Syst. Antl.* 80, 12.
Cyphomia albitarsis, *Wied. Auss. Zweifl.* ii. 56, 5, pl. 8, f. 2. *Macq. Dipt. Exot.* i. 1, 175, 2.

Brazil.

a, *b*. Parà. From Mr. Bates' collection.

5. Cyphomyia fenestrata.

Nigra; antennæ basi testaceæ; thorax vittis quinque metatarsisque albis; abdomen cæruleum, maculis lateralibus argenteis; alæ fuscæ, basi maculaque hyalinis.

Cyphomyia fenestrata, *Macq. Dipt. Exot. Suppl.* 1, 48, 3.

Merida, Yucatan.

6. Cyphomyia inermis.

Nigra; thorax albido quinquevittatus, scutello inermi; alæ cinereæ

Cyphomyia inermis, *Wied. Auss. Zweifl.* ii. 55, 3. *Macq. Hist. Nat. Dipt.* i. 242, 3.

Brazil.

7. Cyphomyia fascipes.

Mas. *Nigra; caput et thorax subtus albo-pubescentia; antennæ ferrugineæ, apice nigræ; thorax testaceo quadrivittatus; scutellum spinis duabus longis albidis; abdomen nigro-cyaneum, fere rotundum, thorace latius et brevius, maculis transversis lateralibus albo-tomentosis; femora et tarsi alba, apice nigra; alæ subcinereæ, venis nigris, stigmate fusco; halteres albidi.*

Male. Black. Head and thorax clothed beneath with white down. Antennæ ferruginous, black towards the tips. Thorax with four stripes of shining testaceous down, the outer pair interrupted. Scutellum with two long whitish spines. Abdomen dark blue, nearly round, broader and shorter than the thorax, with transverse spots of white down along each side. Femora and tarsi white, black towards the tips. Wings slightly gray; veins black; stigma brown. Halteres whitish. Length of the body 3 lines; of the wings 6 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

8. Cyphomyia maculata.

Nigra; caput ferrugineum; thorax et abdomen cinereo maculata; scutellum spinis duabus flavis; tarsi albi; alæ limpidæ.

Stratiomys maculata, *Fabr. Syst. Antl.* 85, 30.
Cyphomyia maculata, *Wied. Auss. Zweifl.* ii. 57, 6.

South America.

9. Cyphomyia claripennis.

Mas. *Nigra, albo-pubescens; scutellum spinis flavidis; tarsi albidi; alæ hyalinæ.*

Cyphomyia claripennis, *Macq. Dipt. Exot. Suppl.* 2, 29, 4.

Brazil.

10. Cyphomyia costalis.

Fœm. *Nigra; abdomen fulvum; pedes rufi; alæ flavo-hyalinæ.*

Cyphomyia costalis, *Walk. Linn. Trans.* xvii. 341, 28.

Caput aureo-pilosum, antice flavo varium; oculi nigro-fusci, flavo cingulati; antennæ articulo 1o flavo apice nigro; thorax aureo-pubescens, utrinque ad alæ basim viride; abdomen fulvum, segmentis ventralibus nigris fulvo marginatis; pedes pallide rufi, argenteo-pubescentes, coxis femoribusque fuscis, his apice rufis; alæ flavo-hyalinæ, iridescentes, venis flavis apices versus fuscis; halteres rufi, apice virides.

St. Paul, Brazil.

11. Cyphomyia auriflamma.

Violacea; antennæ nigræ; thorax vitta postice abbreviata aurata; tarsi basi flavi; alæ nigræ.

Cyphomyia auriflamma, *Hoffm. Guér. Icon. Règne Anim. Ins.* pl. 98, f. 5.

a. Monte Video. From Mr. Saunders' collection.

12. Cyphomyia chrysodota.

Cyanea; facie cum vibrissis niveo-pilosa; antennæ nigræ; thorax vitta postice abbreviata aurea; scutellum spinis nigricantibus; abdomen segmento 1o et 2o nigris, hoc ad latera cyaneo; pedes fusco-cyanei, tarsis fuscis basi testaceis; alæ infuscatæ, ad marginem anticum obscuriores; halteres testacei.

Cyphomyia chrysodota, *Perty, Del. Anim. Artic. Bras.* 184, pl. 36, f. 5.

Brazil.

13. Cyphomyia aurifrons.

Violacea; frons aurata; antennæ nigræ; thoracis latera et scutellum apice niveo-hirta; tarsi basi flavi; alæ cinereæ.

Cyphomyia aurifrons, *Wied. Auss. Zwiefl.* ii. 56, 4.

Brazil.

14. Cyphomyia ornata.

Purpureo-cyanea; caput flavum; antennæ fulvæ; pedes picei; alæ cinereæ, ad costam fuscæ.

Cyphomyia ornata, *Walk. Zool.* viii. *Append.* xcvi.

a. Parà. From Mr. Bates' collection.

15. Cyphomyia cyanea.

Chalybea; antennæ nigræ; scutellum bispinosum; alæ fuscæ.

Stratiomys cyanea, *Fabr.*

Cayenne. Colombia.

Genus 7. HERMETIA.

Antennæ 10-articulatæ, simplices, non stylatæ; articulus 3us simplex. Frons non concava. Thorax capitis latitudine. Scutellum muticum.

Musca, p., *Linn.*
Nemotelus, p., *Deg.*
Bibio, p., *Fabr.*
Syrphus, p., *Fabr.*
Mydas, p., *Fabr.*
Xylophagus, p., *Lam.*
Hermetia, *Latr. Dict. d'Hist.* xxiv. 192; *Fabr.*; *Wied.*; *Macq.*

Mediastinal vein ending at about one-third of the length of the wing. Subcostal ending at before half the length. Radial ending at rather beyond half the length. First branch of the cubital ending at beyond half the length between the radial and the second branch which ends at some distance in front of the tip of the wing. Four slightly curved nearly complete externo-medial veins. Subanal united to the anal at some little distance from the border. Discal veinlets forming two sides of the oblong hexagonal discal areolet; median veinlet distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete, as are also the axillary and the subaxillary lobes. Subapical areolet occupying the tip of the wing; four externo-medial areolets nearly complete.

Mexico.

1. Hermetia coarctata.

Fœm. *Nigra; thorax vittis duabus albidis; abdomine coarctatum, lasi flavido-diaphanum vitta nigra; femora tibiæque antica fulva; tarsi antici flavi; alæ flavidæ, apice subfuscæ.*

Hermetia coarctata, *Macq. Dipt. Exot. Suppl.* i. 50, 2, pl. 5, f. 4.

South America.

A. Thorax niger.
  A. Alæ basi obscuræ.
    a. Tibiæ nigræ.
      a. Abdomen nigrum.
        i. Tarsi albi? - - - - - illucens, *Linn.*
        ii. Tarsi fulvi. - - - - rufitarsis, *Macq.*
      b. Abdomen rufum. - - - rufiventris, *Fabr.*
    b. Tibiæ flavæ. - - - - - flavipes, *Wied.*
  B. Alæ basi hyalinæ.
    a. Abdomen nigrum. - - - - - apicalis, *Wied.*
    b. Abdomen fuscum. - - - - albitarsis, *Fabr.*
    c. Alæ basi flavæ. - - - - - pulchra, *Wied.*
B. Thorax cæruleus. - - - - - planifrons, *Macq.*
C. Thorax fulvus. - - - - - - fulva, *Walk.*

2. Hermetia illucens.

Nigra; thorax albido trivittatus; abdominis segmentum 2um. maculis duabus pellucidis, segmentorum margines postici albo-micantes; tibiæ basi tarsique alba; alæ nigro-fuscæ.

Musca illucens, *Linn. Macq. Dipt. Exot.* i. 1, 177, 1, pl. 21, f. 2.

South America. West Indies.

a. Parà. From Mr. Bates' collection.
b. Ega. From Mr. Bates' collection.
c. ———? From Mr. Stevens' collection.

3. Hermetia rufitarsis.

Fœm. *Nigra; antennæ abbreviatæ; oculi subhirti; abdomen latum; tibiæ posticæ basi albæ; tarsi fulvi; alæ fuscanæ.*

Hermetia rufitarsis, *Macq. Dipt. Exot. Suppl.* i. 49, 1.

Colombia.

4. Hermetia rufiventris.

Nigra; scutellum apice rufum; abdomen rubidum, maculis duabus basi pellucidis; tibiæ tarsique basi albida; alæ fuscæ.

Hermetia rufiventris, *Fabr. Syst. Antl.* 63, 2. *Wied. Auss. Zweifl.* ii. 23, 2.

South America.

5. Hermetia flavipes.

Æneo-nigra; scutellum apice rufescens; abdominis segmentum 2um albo-pellucidum; tibiæ tarsique flavida; alæ subfusco-cinereæ, costa nigro-fusca.

Hermetia flavipes, *Wied. Auss. Zweifl.* ii. 26, 6.

a. Parà. From Mr. Bates' collection.

6. Hermetia apicalis.

Nigra, thorax albido quinquevittatus; abdominis segmentum 2um macula transversa pellucente; tarsi albi; alæ fuscæ, basi limpidæ.

Hermetia apicalis, *Wied. Auss. Zweifl.* ii. 25, 5.

a. Parà. From Mr. Bates' collection.

7. Hermetia albitarsis.

Nigra; frons argentea; thorax albido quinquevittatus; abdomen fuscum, segmento 2o tarsisque albis; alæ fuscæ, basi limpidæ.

Hermetia albitarsis, *Fabr. Syst. Antl.* 63, 4. *Wied. Auss. Zweifl* ii. 24, 4, pl. 7, f. 4. *Macq. Dipt. Exot. Suppl.* i. 49.

Colombia.

Var.? *Nigra; facies alba; abdominis segmentum 2um maculis duabus magnis albis; tarsi albi; alæ nigræ.*

Hermetia bimaculata, *Macq. Hist. Nat. Dipt.* i. 228, 2.
Brazil.

Var.? H. bimaculatæ *similis; alæ pallidiores; abdominis segmenta 3um et 4um maculis duabus minoribus albis; tibiæ posticæ basi albæ.*

Hermetia sexmaculata, *Macq. Hist. Nat. Dipt.* i, 229, 4.
Porto Rico.

8. Hermetia pulchra.

Nigra; thorax fulvo-hirtus; scutellum ferrugineum; abdomen basi fulvo-hirtum maculis duabus flavescentibus pellucidis; tibiæ tarsique intermedia pallida; alæ basi flavæ, apice interrupte fusca.

Hermetia pulchra, *Wied.*
Surinam. Brazil.
a. Brazil. From Mr. Bates' collection.

9. Hermetia planifrons.

Mas. *Cærulea; frons plana; thorax vittis tribus albis; abdomen fuscum, segmento 2o albo-micante; pedes nigri, tarsis albis; alæ fuscanæ, basi hyalinæ.*

Hermetia planifrons, *Macq. Dipt. Exot. Suppl.* i. 50, 3.
Merida, Yutacan.

10. Hermetia fulva.

Fœm. *Fulva; antennæ ferrugineæ, flagello fulvo longi-fusiformi apice albo; thorax piceo quadrivittatus, lateribus pectoreque necnon abdominis fasciis ventreque testaceis; alæ cinereæ, dimidio antico fulvo, macula discali subapicali fusco.*

Tawny. Antennæ ferruginous; flagellum tawny, elongate-fusiform, white towards the tip. Thorax with four piceous stripes; sides and pectus testaceous. Abdomen testaceous beneath and with

testaceous bands along the hind borders of the segments. Wings gray; fore half tawny; a brown spot in the disk beyond the discal areolet. Length of the body 5 lines; of the wings 11 lines.

a. Parà. From Mr. Bates' collection.

Genus 8. THORASENA.

Antennæ 10-articulatæ, simplices, non stylatæ; articulus 3us simplex. Frons concava. Thorax capite angustior. Scutellum muticum.

Hermetia, p., *Wied. Macq. Hist. Nat. Dipt.*
Thorasena, *Macq. Dipt. Exot.* i. 1, 177.

Mediastinal vein ending at beyond one-third of the length of the wing. Subcostal ending at beyond half the length. Radial ending at a little beyond the subcostal. First branch of the cubital straight, ending at beyond half the distance between the radial and the second branch which ends at some distance in front of the tip of the wing. Four incomplete nearly straight externo-medial veins. Subanal united to the anal at some distance from the border. Discal veinlet forming two sides of the oblong hexagonal discal areolet. Median veinlet rather long. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete. Four incomplete externo-medial areolets. Subapical areolet in front of the tip of the wing.

1. THORASENA PECTORALIS.

Nigra; antennæ basi rufescentes; thorax lineis stramineis; pectus rubidum; abdomen apud medium subrufescens; pedes rubidi, tarsis nigris basi albis; alæ cinereæ, costa nigro-fusca.

Hermetia pectoralis, *Wied. Analecta Ent.* 19, 2; *Auss. Zweifl.* ii. 26, 7. *Macq. Hist. Nat. Dipt.* i. 229, 3.
Thorasena pectoralis, *Macq. Dipt. Exot.* i. 1, 178, 1, pl. 21, f. 3.

Guinea.

Genus 9. PHYLLOPHORA.

Mas. Corpus angustum, lineare. Antennæ 7-articulatæ, capite paullo longiores, articulus 1us longus; 2us cyathiformis; 3us, 4us, 5us, et 6us brevissimi; 7us setiformis, longissimus. Thorax

antice angustatus. Scutellum quadrispinosum. Abdomen thorace paullo latius, non longius. Pedes tenues.

Phyllophora, *Macq. Dipt. Exot.* ii. 178.

Mediastinal vein ending at before half the length of the wing. Radial ending at beyond half the length. First branch of the cubital ending at a little beyond half the length between the radial and the second branch, which ends at some distance in front of the tip of the wing. Three complete nearly straight externo-medial veins. Subanal vein united to the anal at some distance from the border. Discal areolet pentagonal. Median veinlet obsolete. Subapical areolet occupying the front of the tip of the wing.

1. PHYLLOPHORA NIGRA.

Nigra; antennæ fuscæ, basi scutellique spinæ flavæ; pedes fulvi; alæ ad costam fuscæ.

Phyllomorpha nigra, *Macq. Dipt. Exot.* i. 1, 178, 1.
Clitellaria Cormasa, *Walk. Cat. Dipt.* 3, 524.

Genus 10. ACANTHINA.

Antennæ 7-articulatæ; flagellum breve, conicum. Thorax valde productus. Scutellum quadrispinosum. Abdomen convexum, crassum. Pedes breves, tenues. Alæ parvæ.

Acanthina, *Wied. Auss. Zweifl.* ii. 50; *Macq.*

Mediastinal vein ending at half the length of the wing. Subcostal and radial veins ending before two-thirds of the length. First branch of the cubital straight, short, ending at one-fourth of the distance between the radial and the second branch, which ends at far in front of the tip of the wing. Three complete externo-medial veins. Subanal vein joining the anal at some distance from the border. Median veinlet distinct. Discal areolet pentagonal.

A. Thorax albo vittatus.
  A. Alæ hyalinæ, vitta apiceque fuscis. - - longa, *Wied.*
  B. Alæ fuscæ, fascia limpida. - - - elongata, *Wied.*
B. Thorax fusco vittatus. - - - hieroglyphica, *Wied.*
C. Thorax fulvo vittatus.
  A. Alæ margine postico fasciaque fuscis. - - ornata, *Macq.*
  B. Alæ flavidæ. - - - - - - aurata, *Macq.*

1. Acanthina longa.

Nigra; antennæ fulvæ; thorax albo bivittatus; pedes lutei; alæ hyalinæ, vitta apiceque fuscis.

Acanthina longa, *Wied. Auss. Zweifl.* ii. 51, 2.

Brazil.

2. Acanthina elongata.

Æneo-nigra; thorax lineis, abdomen maculis argenteis; pedes albido-flavi, femoribus posticis nigro-fuscis; alæ fuscæ, fascia limpida.

Clitellaria elongata, *Wied. Anal. Entom.* 30, 37.
Acanthina elongata, *Wied. Auss. Zweifl.* ii. 52, 3, pl. 7, f. 9, a, b. *Macq. Hist. Nat. Dipt.* i. 241, 1.

a, b. Parà. From Mr. Bates' collection.

3. Acanthina hieroglyphica.

Nigra; antennæ fulvæ; thorax fulvo-hirtus, fusco vittatus; abdomen nigrum, maculis albidis; pedes fuscani; alæ plerumque nigro-fuscæ.

Acanthina hieroglyphica, *Wied. Auss. Zweifl.* ii. 50, 1.

Brazil.

4. Acanthina ornata.

Fœm. *Nigra; antennæ fuscæ, basi testaceæ; thorax et abdomen vittis maculisque aureis; pedes fulvi, postici obscuriores; alæ margine postico fasciaque fuscis.* Long. 3 lin.

Acanthina ornata, *Macq. Dipt. Exot. Suppl.* i. 51, pl. 5. f. 5.
Acanthina hieroglyphica, *var.* ?

Colombia.

a. Parà. From Mr. Bates' collection.

5. Acanthina aurata.

Mas. *Nigra; antennæ testaceæ, apice nigræ; thorax et abdomen vittis maculisque aureis; alæ flavidæ.*

Acanthina aurata, *Macq. Dipt. Exot. Suppl.* i. 51, 2, pl. 5, f. 6.

Colombia.

Genus 11. STRATIOMYS.

Antennæ 7—8 articulatæ, arista brevi. Scutellum bispinosum.

Musca, p., *Linn.*
Hirtea, p., *Scopoli.*
Stratiomys, *Geoffr. Ins. ed. Fourcroy; Fabr.; Panz.; Fall.; Zett.; Loew.*
Stratiomys et Odontomyia, *Latr.; Meig.; Macq.*

Mediastinal and radial veins ending near together at beyond half the length of the wing. First branch of the cubital extremely short, ending at two-thirds or more of the distance between the radial and the second branch, which ends at far in front of the tip of the wing. Four secondary very slender, incomplete and curved externo-medial veins. Subanal vein joining the anal at a short distance from the border. Discal veinlets forming one or two sides of the pentagonal or hexagonal discal areolet. Median veinlet short, but distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical and discal areolets complete. Four externo-medial areolets, axillary lobe, and subaxillary lobe incomplete. Subapical areolet in front of the tip of the wing.

Europe.

1. STRATIOMYS BALIUS.

Odontomyia Balius, *Cat. of Diptera*, Pt. 3, 533.

Europe.

A. Antennarum articulus 1us 2o quadruplo longior.
  A. Alæ fuscescentes.
    a. Femora fulva.
      a. Abdomen fasciis omnibus interruptis. Chamæleon, *Linn.*
      b. Abdomen fascia una integra. - - Potamida, *Meig.*
    b. Femora nigro-fusca. - - - - Cenisia, *Meig.*
  B. Alæ fulvescentes.
    a. Abdomen fasciis interruptis flavis.
      a. Pedes fulvi. - - - - - - concinna, *Meig.*
      b. Pedes lutei. - - - - - - equestris, *Meig.*
    b. Abdomen fasciis interruptis albis. - - riparia, *Meig.*
  C. Alæ fuscescentes, apice limpidæ. - longicornis, *Scopoli.*

D. Alæ limpidæ, ad costam flavescentes. - furcata, *Fabr.*
E. Alæ limpidæ. - - - - - - annulata, *Meg.*
F. Alæ flavescentes, apicibus marginibusque posticis subcinereis. - - - - splendens, *Fabr.*
B. Antennarum articulus 1us 2o longior aut duplo longior.
A. Abdomen supra nigrum.
A. Abdomen subtus fulvum aut viride. - - tigrina, *Fabr.*
B. Abdomen subtus apud medium viride. halterata, *Schr.*
B. Abdomen maculis lateralibus pallidis.
A. Alæ non maculatæ.
a. Abdomen maculis lateralibus trigonis fulvis. ornata, *Meig.*
b. Abdomen fasciis interruptis sulphureis. Hydrodromia, *Meig.*
c. Abdomen fasciis interruptis flavis. Russica, *Gimmerth.*
d. Abdomen maculis lateralibus viridibus. lunata, *Macq.*
B. Alæ puncto costali medio fusco. - argentata, *Fabr.*
C. Alæ maculis costalibus basalibus fuscis. septemguttata, *Wied.*
C. Abdomen utrinque albo lineatum. - Microleon, *Linn.*
C. Abdomen lateribus aurantiacis. - - - decora, *Wied.*
D. Abdomen lateribus fulvis. - - - - flavissima, *Fabr.*
D. Abdomen lateribus flavis. - - - limbata, *Hoffm.*
E. Abdomen lateribus viridibus.
A. Antennarum articulus 1us 2o plus duplo longior. - - - - - - connexa, *Walk.*
B. Antennarum articulus 1us 2o non duplo longior.
a. Abdomen vitta nigra.
i. Abdomen vitta lata. - - latifasciata, *Macq.*
ii. Abdomen vitta postice dilatata. - viridula, *Fabr.*
iii. Abdomen vitta angulata.
1. Tibiæ posticæ fulvæ.
* Antennæ omnino nigræ. - - felina, *Panz.*
** Antennæ basi fulvæ. - - Hydropota, *Meig.*
*** Antennæ ferrugineæ. - - ruficornis; *Zett.*
2. Tibiæ posticæ fusco cinctæ.
* Antennæ nigræ. - - - Hydroleon, *Linn.*
** Antennæ ferrugineæ, apice nigræ. brevicornis, *Loew.*
b. Abdomen maculis dorsalibus nigris. subvittata, *Meig.*
c. Abdomen macula postica duplicata nigra. bimaculata, *Meig.*
F. Abdomen omnino pallidum. - - - jejuna, *Schr.*

2. Stratiomys Chamæleon.

Nigra; thorax fuscus; scutellum flavum, macula basali triangulari nigra; abdomen fasciis interruptis flavis, subtus flavum strigis nigris; pedes fulvi; alæ fuscescentes.

Stratiomys Chamæleon, *Duméril, Cons. Gen. Ins.* pl. 48, f. 6. *Zett. Dipt. Scand.* i. 134, 1. *Loew, Isis*, 1840, 556, 1.
Musca Chamæleon, *Deg. Frisch. Beschr.* i. 5, pl. 10.
——— *Swammerd. Bibl. Nat.* pl. 39, 41, (larva) *Sparrm. Swed. Trans.* 1804, (larva) *Schr. Naturf.* 27, (larva).

Europe—Sicily.

a—f. England. From Mr. Stephens' collection.

3. Stratiomys Potamida.

Nigra; thorax fuscus; scutellum flavum, macula basali flava; abdomen maculis duabus lateralibus basi fasciisque duabus angustis flavis, la maris interrupta, subtus flavum nigro fasciatum; pedes fulvi; alæ fuscescentes.

Stratiomys Potamida, *Meig.*

Stratiomys Chamæleon, *var.?*

a—f. England. From Mr. Stephens' collection.

4. Stratiomys Cenisia.

Nigra; thorax fuscus; scutellum flavum, macula basali semicirculari nigra; abdomen fasciis flavis interruptis, subtus flavum nigro fasciatum; pedes flavi, femoribus nigro-fuscis, tibiis posticis fuscis; alæ fuscescentes.

Stratiomys Cenisia, *Meig. Zweifl.* iii. 136, 2. *Macq. Hist. Nat. Dipt.* i. 243, 2.

Mont Cenis.

5. Stratiomys concinna.

Nigra; scutellum flavum, basi nigrum; abdomen fasciis interruptis flavis; pedes fulvi, femoribus nigris; alæ flavo-fuscescentes.

Stratiomys concinna, *Meig. Zweifl.* iii. 137, 4. *Macq. Hist. Nat. Dipt.* i. 242, 4.

Col di Tenda. Turin.

a. Sicily. From Mr. Saunders' collection.
b. Interlacken, Switzerland. Presented by F. Walker, Esq.

6. Stratiomys equestris.

Mas. *Nigra; thorax rufo-hirtus; scutellum postice flavum, spinis flavis apice nigris; abdomen supra fasciis interruptis, subtus fasciis integris flavis; pedes et halteres lutei; femora nigra, apice flava; alæ fulvescentes.*

Nearly allied to *S. concinna*.

Stratiomys equestris, *Meig. Zweifl.* vii. 106, 29. *Gimmerth. Bull. Soc. Imp. Nat. Mosc.* 1847, 168, 1.

Bavaria. Russia.

7. Stratiomys riparia.

Nigra; thorax rufo-villosus; abdomen strigis tribus lateralibus apiceque albis, subtus fasciis tribus albis; pedes flavi, tibiis apice femoribusque fuscis; alæ flavo-fuscescentes.

Stratiomys riparia, *Meig. Zweifl.* iii. 138, 6. *Macq. Hist. Nat. Dipt.* i. 242, 6.
Stratiomys furcata, var., *Loew, Isis*, 1840, 556, 3.

a. Albania. From Mr. Saunders' collection.

8. Stratiomys longicornis.

Nigra; thorax rufo-villosus; abdomen subtus fasciis albis; pedes flavescentes, femoribus fuscis, tibiis fusco bicinctis; alæ fusces-centes, apice limpidæ.

Hirtea longicornis, *Scopoli.*
Stratiomys strigata, *Zett. Dipt. Scand.* i. 135, 3.
Var. pallida, *Zeller, Isis*, 1840, 556, 4. *Gimmerth. Bull. Soc. Imp. Nat. Mosc.* 1847, 169, 3.

a—d. England. From Mr. Stephens' collection.

9. Stratiomys furcata.

Nigra; thorax cinereo-villosus; scutellum flavum, macula basali triangulari flava; abdomen supra maculis lateralibus inæqualibus, subtus fasciis quatuor stramineis; pedes flavi, femoribus nigro-fuscis, tibiis posticis fuscis; alæ limpidæ, ad costam flavescentes.

Stratiomys furcata, *Fabr. Zett. Dipt. Scand.* i. 135, 2. *Loew, Isis*, 1840, 556, 2.
Musca Chamæleon, *Linn.*
Stratiomys Chamæleon, *Schr. Panz. Rossi.*

a—f. England. From Mr. Stephens' collection.

10. Stratiomys annulata.

Nigra; thorax aureo-tomentosus, subtus albo-tomentosus; abdomen fasciis tribus lateralibus fulvis, subtus flavum; pedes flavi, femoribus nigris, tibiis posticis fusco cinctis; alæ limpidæ.

Stratiomys annulata, *Megerle; Meig.*
Odontomyia annulata, *Macq. Hist. Nat. Dipt.* i. 246, 3.

South France. Austria.

11. Stratiomys splendens.

Nigra, aureo-tomentosa; abdomen fasciis nigris; tarsi fulvi; alæ flavescentes, apicibus marginibusque posticis subcinereis.

Stratiomys splendens, *Fabr.*

Spain.

12. Stratiomys tigrina.

Nigra; abdomen subtus fulvum; pedes fulvi, femoribus fuscis, tibiis fusco cinctis; alæ limpidæ, ad costam nigricantes.

Stratiomys tigrina, *Fabr.*
Stratiomys nigrita, *Zett. Dipt. Scand.* i. 138, 7. *Loew, Isis*, 1840, 597, 10.

a—f. England. From Mr. Stephens' collection.

13. Stratiomys halterata.

Nigra; venter apud medium sordide viridis.

Stratiomys halterata, *Schr. Fauna Boic.* iii. 2380. *Meig. Zweifl.* iii. 152, 23.

Bavaria.

14. Stratiomys ornata.

Nigra; thorax fulvo-hirtus; scutellum fulvo marginatum; abdomen maculis lateralibus triangularibus fulvis, subtus pallidum; pedes fulvi, femoribus basi nigris, tibiis fusco maculatis; alæ limpidæ.

Stratiomys ornata, *Meig. Zett. Dipt. Scand.* i. 136, 4. *Loew, Isis*, 1840, 557, 6.

Odontomyia furcata, *Macq. Hist. Nat. Dipt.* i. 245, 1.

a—d. England. From Mr. Stephens' collection.

15. Stratiomys Hydrodromia.

Nigra; abdomen fasciis tribus interruptis apiceque sulphureis, subtus pallidum; pedes flavi, femoribus fuscis, tibiis posticis fusco cinctis; alæ limpidæ.

Stratiomys Hydrodromia.

a. England. From Mr. Stephens' collection.

16. Stratiomys Russica.

Nigra, antennarum articulus 1us 2o multo longior; thorax cinereo-villosus; abdomen fasciis interruptis flavis, subtus flavum, fasciis tribus nigris.

Stratiomys Russica, *Gimmerthal, Bull. Soc. Imp. Nat. Mosc.* 1847, 169, 4.

Russia.

17. Stratiomys lunata.

Fœm. *Nigra; caput et thorax nigro-metallica; abdomen margine maculisque lateralibus viridibus; pedes fulvi; alæ limpidæ; halteres flavi.*

Odontomyia lunata, *Oliv. Encycl. Méth.* viii. 436. *Macq. Dipt. Nord.* 129, 8; *Hist. Nat. Dipt.* i. 248, 12.
Stratiomys lunata, *Meig. Zweifl.* vii. 107, 31.
Normandy.

18. Stratiomys argentata.

Nigra; abdomen maris *argenteo-tomentosum maculis lateralibus flavis*, fœminæ *aureo-tomentosum; pedes fusci, tibiis fulvis fusco cinctis; alæ limpidæ, puncto costali medio fusco.*

Stratiomys argentata, *Fabr. Zett. Dipt. Scand.* i. 137, 6. *Zeller, Isis*, 1842, 827, 10. *Gimmerth. Bull. Soc. Imp. Nat. Mosc.* 1847, 169, 2.

a—d. England. From Mr. Stephens' collection.

19. Stratiomys septemguttata.

Nigra; thorax orichalceo-hirtus; abdomen maculis quatuor transversis majoribus, duabus minoribus, apice ventreque flavis; pedes flavi, tibiis posticis femoribusque apice nigro cinctis; alæ limpidæ maculis costalibus basalibus fuscis.

Stratiomys septemguttata, *Wied.; Meig. Zweifl.* iii. 150, 20.
Istria.

20. Stratiomys Microleon.

Nigra; abdomen utrinque albo lineatum, subtus pallidum; alæ hyalinæ.

Stratiomys microleon, *Meig. Zweifl.* vi. 346. *Germ.; Ahrens, Faun. Ins. Eur. fasc.* 8, pl. 23. *Zett. Dipt. Scand.* i. 137, 5.
Odontomyia microleon, *Macq. Hist. Nat. Dipt.* i. 246, 5.

21. Stratiomys decora.

Nigra; thorax albo-hirtus; abdomen lateribus ventreque aurantiacis; femora antica basi ferruginea; tarsi basi rufi; alæ limpidæ.

Stratiomys decora, *Wied.; Meig. Zweifl.* iii. 144, 12.
Odontomyia decora, *Macq. Hist. Nat. Dipt.* i. 245, 2.
France. Austria.

22. STRATIOMYS FLAVISSIMA.

Nigra; abdomen fulvum, vitta lata nigra; alæ limpidæ, costa basi fusca.

Stratiomys flavissima, *Fabr. Ent. Syst.* iv. 265, 8; *Syst. Antl.* 79, 6. *Coqueb. Illustr.* 101, pl. 23, f. 5. *Meig. Zweifl.* iii. 153, 25.

Odontomyia flavissima, *Meig. Klassif. Zweifl.* i. 131, *b.*

Italy.

23. STRATIOMYS LIMBATA.

Nigra; abdomen flavo limbatum; genua flava; alæ limpidæ.

Stratiomys limbata, *Hoffm.; Meig. Zweifl.* iii. 151, 21.

Portugal.

24. STRATIOMYS CONNEXA.

Nigro-ænea; caput flavo-viride, nigro maculatum; thoracis et abdominis latera, scutelli margo posticus et venter flavo-viridia; pedes nigri, tibiis tarsisque basi flavis; alæ cinereæ, ad costam fuscæ.

Stratiomys connexa, *Walk. Ins. Brit. Dipt.* i. 17, 7.

a. England. From Mr. Stephens' collection.

25. STRATIOMYS LATIFASCIATA.

Nigra, flavo-hirta; scutellum margine postico flavo, spinis apice nigris; abdomen viride, vitta lata nigra.

Odontomyia latifasciata, *Macq. Hist. Nat. Dipt.* i. 248, 11.
Stratiomys latifasciata, *Meig. Zweifl.* vii. 107, 32.

France.

26. STRATIOMYS VIRIDULA.

Nigra; scutellum flavo cinctum; abdomen viride, vitta dorsali nigra postice dilatata; pedes flavi; alæ limpidæ.

Stratiomys viridula, *Fabr. Zett. Dipt. Scand.* i. 140, 11. *Loew, Isis*, 1840, 557, 9.

a—f. England. From Mr. Stephens' collection.

27. Stratiomys felina.

Nigra; abdomen supra viride, vitta lata angulata nigra, subtus virescens; pedes fulvi; alæ limpidæ.

Stratiomys felina, *Panz. Faun. Germ.*

a. ——— ?

28. Stratiomys Hydropota.

Nigra; antennæ basi fulvæ; abdomen viride, vitta dorsali nigra angulata; pedes fulvi; alæ limpidæ.

Stratiomys Hydropota, *Meig.* ♀

Odontomyia Hydropota, *Macq. Hist. Nat. Dipt.* i. 247, 8.

a, b. England. From Mr. Stephens' collection.

c. ———?

29. Stratiomys ruficornis.

Mas et Fœm. *Nigra; antennæ totæ ferrugineæ; abdomen viride, supra vitta æqualiter lata angulata nigra; pedes flavo-testacei.*

Stratiomys ruficornis, *Zett. Dipt. Scand.* i. 139, 9.

Sweden.

30. Stratiomys Hydroleon.

Nigra; antennæ totæ nigræ; scutellum apice fulvum; abdomen viride, vitta dorsali nigra angulata; pedes fulvi, tibiis posticis fusco cinctis; alæ limpidæ:

Musca Hydroleon, *Linn.*

Stratiomys Hydroleon, *Zett. Dipt. Scand.* i. 140, 10. *Loew, Isis*, 1840, 557, 7.

31. Stratiomys brevicornis.

S. Hydroleon *similis; caput latius; antennæ breviores, ferrugineæ apice nigræ; abdomen gracilius.*

Stratiomys brevicornis, *Loew, Isis,* 1840, 557, 8.

Posen.

32. Stratiomys subvittata.

Nigra; abdomen viride, maculis dorsalibus nigris; pedes flavi; alæ limpidæ.

Stratiomys subvittata, *Meig. Zweifl.* iii. 150, 19.

Germany.

a. England. From Mr. Stephens' collection.
b—d. England.

33. Stratiomys bimaculata.

Fœm. *Nigra; scutellum spinis flavis; abdomen viride, macula postica duplicata nigra; pedes flavescentes; alæ limpidæ; halteres albi.*

Stratiomys bimaculata, *Meig. Zweifl.* vii. 106, 30.

Bavaria.

34. Stratiomys jejuna.

Nigra; abdomen ferrugineum, pellucidum; pedes fulvi.

Stratiomys jejuna, *Schr. Fauna Boic.* iii. 2384. *Meig. Zweifl.* iii. 153, 24.

Bavaria.

North America.

35. Stratiomys ischiaca.

Stratiomys ischiaca, *Harris, Cat. of Diptera,* Pt. 3, 529.

36. STRATIOMYS NIGRIFRONS.

Stratiomys nigrifrons, *Cat. of Diptera*, Pt. 3, 531.

37. STRATIOMYS NYMPHIS.

Stratiomys Nymphis, *Cat. of Diptera*, Pt. 3, 530.

38. STRATIOMYS PARON.

Odontomyia Paron, *Cat. of Diptera*, Pt. 3536.

North America.

A. Antennarum articulus 1us 2o multo longior.
  A. Alæ fuscescentes.
    A. Scutellum apice luteum.
      a. Antennæ nigræ.
        i. Abdomen maculis lateralibus flavis. Meigenii, *Wied.*
        ii. Abdomen immaculatum. - - robusta, *Walk.*
      b. Antennæ basi fulvæ. - - - - flaviceps, *Macq.*
    B. Scutellum apice obscurum. - - - Norma, *Wied.*
  B. Alæ subflavæ. - - - - - - pulchella, *Macq.*
  C. Alæ limpidæ, costa flava. - - - intermedia, *Wied.*
  D. Alæ hyalinæ. - - - - - - - vicina, *Macq.*
B. Antennarum articulus 1us 2o æqualis aut vix longior.
  A. Abdominis latera obscura.
    A. Tibiæ nigræ. - - - - - - - flavicornis.
    B. Tibiæ pallidæ.
      a. Femora nigra. - - - - - obscura, *Macq.*
      b. Femora pallida. - - - - - - cincta, *Oliv.*
  B. Abdominis latera pallida.
    A. Alæ ad costam fuscæ. - - - limbipennis, *Macq.*
    B. Alæ ad costam limpidæ.
      a. Abdomen marginibus pallidis. - - pallipes, *Fabr.*
      b. Abdomen pallidum, vitta nigra.
        i. Scutellum fuscum. - - - vertebrata, *Say*
        ii. Scutellum nigrum. - - - - virgo, *Wied.*

39. STRATIOMYS MEIGENII.

Nigra; scutellum apice, abdomen utrinque maculis trigonis divisis et vittula anali luteis; tibiæ tarsique basi flava; alæ fuscescentes.

Stratiomys Meigenii, *Wied.*

40. Stratiomys robusta.

Fœm. *Nigra; oculi testaceo ex parte marginati; antennæ capite duplo longiores; scutellum margine postico spinisque flavis; abdomen crassum, marginibus vitta apicali ventreque flavis, hac fasciis tribus abbreviatis nigris; pedes flavi, femoribus nigris, tibiis nigro cinctis; alæ fuscæ, apice limpidæ; halteres flavi.*

Fem. Black. Head testaceous about part of the eyes. Antennæ about twice the length of the head; first joint full six times the length of the second. Thorax clothed with pale down; hind border and spines of the scutellum yellow. Abdomen convex, very thick, yellow along each side, and with a yellow stripe on the apical segment; under side yellow, with three broad black bands which are much abbreviated on each side. Legs yellow; femora black; a black band on each tibia. Wings brown, with limpid tips; veins piceous. Halteres yellow. Length of the body 5 lines; of the wings 10 lines.

a. North America. Presented by Sir Roderick Impey Murchison.

41. Stratiomys flaviceps.

Nigra; caput flavum, nigro varium; antennæ basi fulvæ; thoracis latera et pectus flava, nigro maculata; scutellum fœminæ *flavum*, maris *margine postico flavo; abdomen maculis sex lateralibus unaque apicali flavis; pedes flavi, femoribus nigris; alæ apud medium fuscescentes.*

Stratiomys flaviceps, *Macq. Hist. Nat. Dipt.* i. 245, 1. *Guér. Icon. Règne Anim. Ins. Texte*, 544.

Stratiomys coronata, *Serv.*; *Guér. Icon. Règne Anim. Ins.* pl. 98, f. 6.

Philadelphia.

42. Stratiomys Norma.

Nigra; vertex et scutellum subbadia; abdomen maculis vittulisque sulphureis; pedes lutei; alæ fuscescentes.

Stratiomys Norma, *Wied.*

43. Stratiomys pulchella.

Fœm. *Nigra; antennæ basi, thoracis latera scutellumque fulva; abdomen fasciis tribus ventreque viridibus; tibiæ tarsique fulva; alæ subflavæ.*

Stratiomys pulchella, *Macq. Dipt. Exot.* i. 1, 180, 3, pl. 22, f. 2.

Georgia.

44. Stratiomys intermedia.

Nigra; thorax aurario-hirtus; abdomen utrinque maculis transversis margineque luteis, subtus flavescens; pedes flavi, femoribus nigro-piceis; alæ limpidæ, costa flava.

Stratiomys intermedia, *Wied.*

45. Stratiomys vicina.

Mas. *Nigra; caput albido maculatum; thorax vittis lateralibus, pectus maculis scutellumque margine flavis; abdomen maculis lateralibus fulvis trigonis; tibiæ tarsique fulva; alæ hyalinæ.*

Stratiomys vicina, *Macq. Dipt. Exot.* i. 1, 181, 4.

St. flaviceps, *Macq.* Mas?

Allied to *S. intermedia.*

Philadelphia.

46. Stratiomys flavicornis.

Fœm. *Nigra; facies et frons fulva; antennæ rufo-fulvæ, apice nigræ; thorax albido trivittatus; scutellum fulvum, spinis flavis; abdomen cyaneo-nigrum, segmenta 2o ad 5um maculis lateralibus albidis; genua fulva; tarsi basi albido-flavi.*

Odontomyia flavicornis, *Bosc.*; *Macq. Hist. Nat. Dipt.* i. 248, 14.

North America.

47. Stratiomys obscura.

Mas. *Nigra; thoracis maculæ laterales, scutellum, abdominis latera, segmentorum margines postici, ventrisque maculæ viridia; tibiæ tarsique fulva; alæ hyalinæ.*

Odontomyia obscura, *Oliv. MSS. Macq. Dipt. Exot.* i. 2, 189.
Carolina.

48. STRATIOMYS CINCTA.

Mas. *Nigra; frons viridis, nigro bimaculatus; antennæ fulvæ, apice fuscæ; thoracis latera; scutellum abdominisque fasciæ tres viridia; pedes fulvi; alæ hyalinæ.*

Odontomyia cincta, *Oliv. MSS. Macq. Dipt. Exot.* i. 2, 189.
Carolina.

49. STRATIOMYS LIMBIPENNIS.

Fœm. *Nigra; abdomen disciforme, viride vel fulvum, vitta nigra postice dilatata; alæ hyalinæ, ad costam fuscæ.*

Odontomyia limbipennis, *Macq. Dipt. Exot. Suppl.* 2, 30, 24.
America.

50. STRATIOMYS PALLIPES.

Nigra; caput linea frontali flavescente; scutellum margine ferrugineo, dentibus duobus albis; abdomen marginibus segmentorum latere albidis, subtus pallidum; pedes pallidi.

Stratiomys pallipes, *Fabr. Ent. Syst.* iv. 265, 12; *Syst. Antl.* 81, 13. *Wied. Auss. Zweifl.* ii. 76, 27.
North or South America.

51. STRATIOMYS VERTEBRATA.

Nigra; thorax albido-pubescens; scutellum fuscum, spinis bluabus albidis; abdomen albidum vitta inæquali nigra; pedes flavi; alæ limpidæ.

Odontomyia vertebrata, *Say.*

52. STRATIOMYS VIRGO.

Nigra; abdomen viride, vitta coarctata postice abbreviata nigra; pedes flavi; alæ limpidæ.

Stratiomys virgo, *Wied. Auss. Zweifl.* ii. 69, 13.
North America.

Mexico.

53. Stratiomys Lefebvrei.

Mas. *Viridis; antennæ nigræ, basi virides; thoracis discus, abdominis vitta lata et puncta duo lateralia nigra; femora tibiæque apice tarsique nigra; alæ hyalinæ, ad costam subflavæ.* Long. 5½ lin.

Odontomyia Lefebvrei, *Macq. Dipt. Exot.* i. 1, 189, 13.

54. Stratiomys emarginata.

Mas. *Nigra; scutellum margine postico spinisque flavis; abdomen flavum vitta lata bis emarginata nigra; pedes fusco-fulvi, femoribus nigricantibus; alæ hyalinæ, ad costam subflavæ.*

Odontomyia emarginata, *Macq. Dipt. Exot.* i. 1, 190, 14.

West Indies.

55. Stratiomys albomaculata.

Nigra; antennæ fulvæ, basi apiceque fuscæ; scutellum fulvum; abdomen cærulescens albido maculatum; metatarsi albidi; alæ subcinereæ.

Odontomyia albomaculata, *Macq. Dipt. Exot.* i. 1, 189, 12.
St. Domingo.

56. Stratiomys vicina.

Fœm. *Nigra; abdomen viride fascia dorsali nigra, angusta, apice dilatata.*

Odontomyia vicina, *Macq. Dipt. Exot.* i. 1, 188, 11.
Allied to *S. viridis.*
Cuba.

South America.

57. STRATIOMYS MACULIFRONS.

Odontomyia maculifrons, *Cat. of Diptera*, Pt. 1, 536.

58. STRATIOMYS ALEUS.

Achrochæta Aleus, *Cat. of Diptera*, Pt. 1, 526.

59. STRATIOMYS ATERRIMA.

Odontomyia aterrima, *Diptera Saundersiana*, 2, 78.

60. STRATIOMYS HISTRIO.

Odontomyia histrio, *Diptera Saundersiana*, 2, 77.

a. Colombia. From Mr. Saunders' collection.

A. Scutellum bispinosum.
  A. Antennarum articulus 1us 2o multo longior.
    A. Abdomen silaceo fasciatum. - - mutabilis, *Fabr.*
    B. Abdomen fasciis duabus interruptis albidis. subalba, *Walk.*
    C. Abdomen maculis lateralibus viridibus. - festiva, *Walk.*
  B. Antennarum articulus 1us 2o æqualis aut vix longior.
    A. Alæ fuscæ, fascia alba. - - - fascipennis, *Fabr.*
    B. Alæ flavæ aut subflavæ.
      a. Femora tibiæque fusco cincta. - - conica, *Fabr.*
        i. Facies conica. - - - - rostrata, *Wied.*
        ii. Facies non conica. - - - - elegans, *Macq.*
    C. Alæ hyalinæ, ad costam fuscescentes. quadrilineata, *Macq.*
    D. Alæ hyalinæ, ad costam flavæ.
      a. Alæ basi flavæ. - - - - cruciata, *Macq.*
      b. Alæ basi limpidæ.
        i. Thoracis vittæ rufo marginatæ. - fasciata, *Macq.*
        ii. Thoracis vittæ non marginatæ. pallidiventris, *Macq.*

E. Alæ limpidæ.
a. Pedes anteriores nigri. - - melanopsis, *Wied.*
b. Femora medio nigra. - - - rubricornis, *Macq.*
c. Femora omnino pallida.
i. Tibiæ posticæ apice fuscæ. - - heteroneura, *Macq.*
ii. Tibiæ posticæ omnino pallidæ.
1. Thorax trivittatus. - - - lineata, *Fabr.*
2. Thorax bivittatus.
* Abdomen nigrum, luteo varium. pulchra, *Wied.*
** Abdomen testaceum, vitta nigra. subcuprata, *Walk.*
*** Abdomen viride. - - chloraspis, *Wied.*
3. Thorax non vittatus.
† Scutellum luteum.
‡ Thorax albido pubescens. - virens, *Wied.*
‡‡ Thorax fulvo sericeus. - dorsalis, *Fabr.*
2. Scutellum nigrum.
* Thorax cupreo-hirtus. - - cuprina, *Wied.*
** Thorax non cupreo-hirtus.
† Facies argentea. - - - leucopsis, *Wied.*
†† Facies non argentea. - - Limæ, *Guér.*
B. Scutellum non spinosum. - - - inermis, *Wied.*

61. Stratiomys mutabilis.

Nigra; thorax orichalceo-hirtus; abdomen silaceo fasciatum; pedes ferruginei, femoribus nigris; alæ flavescentes, ad costam fuscæ.

Stratiomys mutabilis, *Fabr. Ent. Syst.* iv. 266, 13; *Syst. Antl.* 81, 14. *Wied. Auss. Zweifl.* ii. 63, 4, pl. 8, f. 6, a—d. *Perty, Del. Anim. Artic. Bras.* pl. 36, f. 14.
Stratiomys fasciata, *Fabr. Ent. Syst.* iv. 266, 14; *Syst. Antl.* 81, 15.

Cayenne.

a. Brazil. Presented by J. P. G. Smith, Esq.
b—d. Parà. From Mr. Bates' collection.
e. ——— ?

62. Stratiomys subalba.

Mas. *Nigra, subtus argenteo-pubescens; antennæ capite fere duplo longiores, articulus 1us basi fulvus; scutellum margine postico fulvo, spinis duabus testaceis; abdomen fasciis duabus interruptis albidis, subtus viride argenteo-tomentosum; pedes fulvi, femoribus nigris; alæ limpidæ, angustæ, antice fuscæ; halteres albi.*

Male. Black, clothed beneath with silvery down. Antennæ nearly twice the length of the head; first joint tawny towards the base, nearly six times the length of the second; flagellum elongate-fusiform. Scutellum tawny along the hind border, with two testaceous spines. Abdomen with two interrupted whitish bands, one on the second, the other on the third segment; under side pale green, with silvery tomentum. Legs tawny; femora black. Wings limpid, narrow, dark brown in front. Halteres white. Length of the body 3 lines; of the wings 6 lines.

a. Parà. From Mr. Bates' collection.

63. Stratiomys festiva.

Fœm. *Nigra; caput fulvum, supra nigrum; antennæ capite plus duplo longiores; thorax fulvo novemmaculatus, spinis piceis; abdomen maculis sex lateralibus fasciisque tribus ventralibus viridibus; alæ fuscæ, basi apud costam pallidiores, venis nigris basi fulvis; halteres albi apice virides.*

Fem. Black. Head tawny; vertex and front mostly black. Antennæ much more than twice the length of the head; first joint nearly four times the length of the second; flagellum unusually long. Thorax with three tawny spots on each side, and two on the disk; a quadrate tawny spot on the scutellum; spines piceous. Abdomen with three bright apple-green spots on each side, and with three short green bands beneath. Wings dark brown, paler in front towards the base; veins black, tawny at the base. Halteres white, with green tips. Length of the body 5 lines; of the wings 10 lines.

a. Parà. From Mr. Bates' collection.

64. STRATIOMYS FASCIPENNIS.

Nigra; scutellum dentibus duabus pallidis; tibiæ posticæ fascia alba; alæ fuscæ fascia alba.

Stratiomys fascipennis, *Fabr. Syst. Antl.* 84, 26. *Wied. Auss. Zweifl.* ii. 75, 25.

South America.

65. STRATIOMYS CRUCIATA.

Mas. *Nigra; thoracis latera, scutellum, pectus et abdomen flava aut viridia; abdomen fascia nigra dorsali cruciata; pedes fulvi; alæ basi et ad costam flavæ.*

Odontomyia cruciata, *Macq. Dipt. Exot.* i. 1, 188. 10.

Chili.

66. STRATIOMYS FASCIATA.

Facies, frons et antennæ fulvæ; thorax niger flavo-pubescens, fasciis duabus viridibus rufo marginatis, lateribus viridibus; pectus nigricans, maculis duabus rufescentibus; scutellum viride; abdomen flavo-viride; pedes flavi; alæ hyalinæ, ad costam flavescentes.

Odontomyia fasciata, *Macq. Hist. Nat. Dipt.* i. 249, 16.

South America.

67. STRATIOMYS PALLIDIVENTRIS.

Nigra; caput antice antennæ pedesque fulva; thorax albido-tomentosus, maris *lineis flavescentibus,* fœm. *vittis latis viridibus; abdomen viride; alæ hyalinæ, ad costam flavæ.*

Odontomyia pallidiventris, *Macq. Dipt. Exot.* x. *Suppl.* i. 53, 20.

Brazil.

68. STRATIOMYS CONICA.

Flavida; antennæ apice nigro-fuscæ; frons depresso-prominula; thorax rubido trivittatus; femora apice tibiæque medio fusca; alæ flavescentes.

Stratiomys conica, *Fabr. Syst. Antl.* 81, 16. *Wied. Auss. Zweifl.* 67, 10.

South America.

69. STRATIOMYS ROSTRATA.

Nigra; facies conica; thorax utrinque flavidus; abdomen utrinque maculis duabus viridibus; alæ flavæ.

Stratiomys rostrata, *Wied. Auss. Zweifl.* ii. 68, 11.
Odontomyia rostrata, *Macq. Hist. Nat. Dipt.* i. 249, 15; *Dipt. Exot.* i. 1, 186, 8, pl. 22, f. 4, a, b.

Brazil.

70. STRATIOMYS ELEGANS.

Fœm. *Viridis; antennæ nigræ basi fulvæ; thoracis discus abdominisque dorsum nigra, hoc maculis lateralibus viridibus, illo viridi bivittato; pedes flavi; alæ subflavæ.*

Odontomyia elegans, *Macq. Dipt. Exot.* i. 1, 187, 9.

South America.

71. STRATIOMYS QUADRILINEATA.

Viridis; frons basi, fascia apiceque nigris; antennæ fuscæ? thorax vittis tribus nigris, intermedia antice posticeque dilatata; scutellum spinis fulvis; abdomen nigro-fuscum, segmentis 2o et 3o viridi quadrivittatis; pedes fulvi; alæ hyalinæ, ad costam fuscescentes.

Odontomyia quadrilineata, *Macq. Hist. Nat. Dipt.* i. 348, 13.

South America.

72. STRATIOMYS RUBRICORNIS.

Mas. *Cæruleo-nigra; antennæ testaceæ, apice fuscæ; abdomen album, vitta dorsali nigra; pedes posticæ fulvi, femoribus medio nigris; alæ hyalinæ.*

Odontomyia rubricornis, *Macq. Dipt. Exot. Suppl.* i. 53, 21.
Merida, Yucatan.

73. STRATIOMYS MELANOPSIS.

Nigra; antennæ flavæ; thorax pilis supra flavescentibus subtus argenteis; abdomen viride; pedes postici flavi; alæ limpidæ.

Stratiomys melanopsis, *Wied. Auss. Zweifl.* ii. 70, 15.
Cassepawa, Brazil.

74. STRATIOMYS HETERONEURA.

Mas. *Nigra; antennæ, pedes postici metatarsique anteriores fulva; abdomen viride; tibiæ tarsique postica apice fuscæ; alæ hyalinæ.* Long. 3½ lin.

Odontomyia heteroneura, *Macq. Dipt. Exot.* i. 1, 186, 7, pl. 22, f. 3.
Brazil.

75. STRATIOMYS LINEATA.

Viridis; caput nigro biguttatum; thorax ochraceo trivittatus; pedes flavi; alæ limpidæ.

Stratiomys lineata, *Fabr. Syst. Antl.* 83, 22. *Wied. Auss. Zweifl.* ii. 70, 16.
South America.

76. STRATIOMYS PULCHRA.

Nigra; thorax vittis duabus marginibus lateralibus scutelloque bispinoso viridibus; abdomen segmentorum lateribus marginibusque posticis luteis; pedes fulvi; alæ limpidæ.

Stratiomys pulchra, *Wied.*
Odontomyia pulchra, *Macq. Dipt. Exot.* i. 1, 186, 7.

77. STRATIOMYS SUBCUPRATA.

Fœm. *Viridis; caput supra æneo-fusco bifasciatum; antennæ ferrugineæ, capite multo breviores; thorax æneo-fusco trivittatus; scutellum spinis fulvis; abdomen testaceum, vitta dorsali lata nigra, subtus albo-tomentosum; pedes fulvi; alæ limpidæ, venis fulvis; halteres virides.*

Fem. Green. Head above with two bronze-brown bands. Antennæ ferruginous, much shorter than the head. Thorax with three very broad bronze-brown stripes. Scutellum with two tawny spines. Abdomen testaceous, with a broad black dorsal stripe; under side with white tomentum. Legs tawny. Wings limpid; veins tawny. Halteres green. Length of the body 4½ lines; of the wings 8 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

78. STRATIOMYS CHLORASPIS.

Nigra; caput, thoracis latera vittæque duæ, scutellum et abdomen viridia; antennæ et pedes flava; alæ limpidæ.

Stratiomys chloraspis, *Wied. Auss. Zweifl.* ii. 68, 12.

Brazil.

79. STRATIOMYS VIRENS.

Nigra; antennæ ferrugineæ; thorax albido-pubescens; scutellum luteum; abdomen viride, vitta nigra postice dilatata; pedes flavi; alæ limpidæ.

Stratiomys virens, *Wied. Auss. Zweifl.* ii. 73, 21.

Brazil.

80. STRATIOMYS DORSALIS.

Nigra; antennæ fulvæ, apice fuscæ; thorax fulvo sericeus; scutellum melleum; abdomen flavidum, vitta lata inæquali nigra; pedes fulvi; alæ limpidæ.

Stratiomys dorsalis, *Fabr. Syst. Antl.* 82, 20. *Wied. Auss. Zweifl.* ii. 66, 9.

South America.

81. STRATIOMYS CUPRINA.

Nigra; antennæ fulvæ; thorax cupreo-hirtus; abdomen luteum, pedes flavi; alæ limpidæ.

Stratiomys cuprina, *Wied. Auss. Zweifl.* ii. 69, 14.
Cassapawa, Brazil.

82. STRATIOMYS LEUCOPSIS.

Nigra; facies argenteo-hirta; antennæ fulvæ; abdomen helvum; pedes helvi; alæ limpidæ.

Stratiomys leucopsis, *Wied. Auss. Zweifl.* ii. 74, 22.
Cassapawa, Brazil.

83. STRATIOMYS LIMÆ.

Nigra; abdomen viride, vitta lata bimaculari dorsali nigra; pedes testacei; alæ limpidæ.

Odontomyia Limæ, *Guér. Voy. de la Coquille, Ins.* pl. 20, f. 12.
Peru.

84. STRATIOMYS INERMIS.

Nigra; caput flavum; antennæ basi flavescentes; thorax limbo maculisque disci (Mas), *vittis duabus* (Fœm.) *flavis aut viridibus; scutellum inerme; abdomen margine maculisque utrinque margine conjunctis* (Mas), *a margine sejunctis* (Fœm.), *flavis; pedes flavi; alæ limpidæ.*

Stratiomys inermis, *Wied. Auss. Zweifl.* ii. 71, 18.
Monte Video. Cassapawa.

Africa.

A. Antennarum articulus 1us 2o multo longior. Anubis, *Wied.*
B. Antennarum articulus 1us 2o æqualis aut vix longior.
A. Alæ ad costam flavæ aut fulvæ.
a. Scutellum bispinosum. - - - frontalis, *Macq.*
b. Scutellum inerme. - - - - anodonta, *Macq.*

B. Alæ omnino limpidæ.
A. Pedes nigro varii.
a. Tibiæ posticæ nigro cinctæ. - - dispar, *Macq.*
b. Tibiæ omnino fuscæ. - - - edentula, *Wied.*
B. Pedes omnino pallidi.
a. Scutelli spinæ mediocres.
i. Thorax flavo-pubescens. - - Guerinii, *Macq.*
ii. Thorax non flavo-pubescens. - albipennis, *Macq.*
b. Scutelli spinæ longæ. - - rectifasciata, *Macq.*

85. Stratiomys Anubis.

Nigra, albido-hirta; abdomen utrinque maculis trigonis luteis, ultimis connexis; tarsi basi flavi; alæ saturate flavæ.

Stratiomys Anubis, *Wied. Auss. Zweifl.* ii. 60, 1.
Egypt.

86. Stratiomys frontalis.

Nigra; frons fulva, macula nigra; antennæ fulvæ, articulus 3us supra niger; abdomen viride, fascia lata nigra fere recta; pedes fulvi; alæ hyalinæ, ad costam flavæ.

Odontomyia frontalis, *Macq. Dipt. Exot.* i. 1, 185, 4.
Cape. East Indies?

87. Stratiomys anodonta.

Mas. *Nigra; scutellum muticum; abdomen viride seu flavum, vitta nigra; pedes fulvi, femoribus nigris; tibiis nigro cinctis; alæ hyalinæ, ad costam fulvæ.*

Odontomyia anodonta, *Macq. Dipt. Exot. Suppl.* i. 52, 18.
Cape.

88. Stratiomys dispar.

Nigra; antennæ basi fulvæ; abdomen albidum maculis dorsalibus nigris (mas), *aut fasciis nigris* (fœm.); *pedes flavi, tibiis posticis femoribusque nigro cinctis; alæ albæ.*

Odontomyia dispar, *Macq. Dipt. Exot.* i. 1, 183, 2.
Senegal.

89. Stratiomys edentula.

Nigra; scutellum inerme; abdomen utrinque maculis tribus linearibus margineque apicis albis; pedes fusci, femoribus medio nigris; alæ limpidæ.

Stratiomys edentula, *Wied. Analecta Ent.* 29, 35; *Auss. Zweifl.* ii. 70, 17.

Cape.

90. Stratiomys Guerinii.

Mas. *Nigra; antennæ fulvæ, apice fuscæ; thorax flavo-pubescens; abdomen viride, fascia lata dorsali nigra; pedes fulvi; alæ hyalinæ.*

Odontomyia Guerinii, *Macq. Dipt. Exot.* i. 1, 183, 1.

Senegal.

91. Stratiomys albipennis.

Mas. *Nigra; antennæ basi fulvæ; abdomen pallide viride; pedes flavi, femoribus anterioribus flavis; alæ albæ.*

Odontomyia albipennis, *Macq. Dipt. Exot.* i. 1, 184, 3.

Senegal.

92. Stratiomys rectifasciata.

Mas et Fœm. *Scutelli spinæ longæ; abdomen viride vitta nigra fere recta.*

Odontomyia rectifasciata, *Macq. Dipt. Exot.* i. 1, 191, 16.

Cape.

93. Stratiomys? quadrilineata.

Nigra; caput apud oculos album; antennæ apice albæ; thorax lætissime cupreo; scutellum quadrispinosum; abdomen argenteo maculatum; alæ fuscanæ.

Stratiomys quadrilineata, *Fabr. Ent. Syst.* iv. 268, 23. *Wied. Auss. Zweifl.* ii. 72, 19.
Cyphomyia?
Sierra Leone.

Asia.

94. STRATIOMYS BARCA.

Stratiomys Barca, *Cat. of Diptera*, Pt. 3, 530.
China.

95. STRATIOMYS GARATAS.

Odontomyia Garatas, *Cat. of Diptera*, Pt. 3, 532.
China

96. STRATIOMYS SOLENNIS.

Odontomyia solennis, *Diptera Saundersiana*, Pt. 2, 79.
East Indies.

97. STRATIOMYS VENTRALIS.

Mas. *Nigra; abdomen maculis utrinque tribus unaque apicali, necnon ventre toto flavicantibus.*

Stratiomys ventralis, *Loew, Ent. Zeit. Stett.* viii. 369, 1.
Siberia.

98. STRATIOMYS NIGRIPES.

Fœm. *Nigra; abdomen viride vel fulvum, vitta lata nigra; alæ subflavescentes.*

Odontomyia nigripes, *Macq. Dipt. Exot. Suppl.* i. 29, 22.
Syria.

99. STRATIOMYS RUFICORNIS (Nomen bis lectum).

Mas. *Nigra; antennæ rufæ; abdomen maculis lateralibus flavis; tibiæ tarsique fulva; alæ subfulvæ.*

Stratiomyia ruficornis, *Macq. Dipt. Exot.* i. 1, 180, 2.
Bagdad.

100. Stratiomys flavifrons.

Fœm. *Nigra; abdominis segmentum 2um maculis lateralibus flavis, 3um 4umque fascia flava angusta postica interrupta; pedes fulvi, tibiis posticis femoribusque nigris; alæ flavo-subfuscæ.*

Stratiomyia flavifrons, *Macq. Dipt. Exot.* i. 1, 179, 1.

Mesopotamia.

Hindostan, &c.

A. Thorax cupreo-pubescens. - - - - rubrithorax, *Macq.*
B. Thorax non cupreo-pubescens.
A. Alæ ad costam subflavæ - - - consobrina, *Macq.*
B. Alæ omnino limpidæ.
a. Thorax aurato vittatus. - - - viridana, *Wied.*
b. Thorax argentaceo vittatus. - - siderogaster, *Wied.*
c. Thorax non vittatus.
a. Antennæ capite plus duplo longiores. - apicalis, *Walk.*
b. Antennæ capite breviores.
i. Abdomen piceum. - - - diffusa, *Walk.*
ii. Abdomen fuscum. - - - - minuta, *Fabr.*
iii. Abdomen album. - - - - pusilla, *Fabr.*

101. Stratiomys rubrithorax.

Mas. *Nigra; thorax cupreo-pubescens; abdomen albidum; femora flavo anteriora nigro maculata.*

Odontomyia rubrithorax, *Macq. Dipt. Exot.* i. 1, 185, 5.

Bengal.

102. Stratiomys consobrina.

Mas. *Nigra; thorax flavido-pubescens; abdomen viride, fascia lata dorsali nigra; pedes fulvi, tibiis posticis nigris; alæ hyalinæ, ad costam subflavæ.*

Odontomyia consobrina, *Macq. Dipt. Exot. Suppl.* 3, 16, 25.

Java.

103. Stratiomys viridana.

Nigra; antennæ et pedes fulva; thorax aurato vittatus; scutellum viride; abdomen maculis lateralibus ventreque viridibus; alæ limpidæ.

Stratiomys viridana, *Wied. Analecta Ent.* 29, 34; *Auss. Zweifl.* ii. 66, 8.

Bengal.

104. Stratiomys siderogaster.

Nigra; thorax argentaceo vittatus; scutellum bispinosum, apice ferrugineum; abdomen ferrugineum; alæ limpidæ.

Stratiomys siderogaster, *Wied. Auss. Zweifl.* ii. 65, 7.

Java.

105. Stratiomys apicalis.

Fœm. *Nigra, fulvo-pubescens; antennæ capite fere triplo longiores; scutellum spinis duabus fulvis; segmentorum abdominalium margines postici fasciis lateralibus fulvis, subtus pallide testacei; pedes fulvi, tibiis tarsisque anticis femoribusque nigris, tibiis posterioribus nigro bifasciatis; alæ fuscæ, apice limpidæ, venis nigris; halteres fulvi.*

Fem. Black, clothed with tawny down. Antennæ nearly thrice the length of the head; first joint more than six times the length of the second. Scutellum with two tawny spines. Hind borders of the abdominal segments with short tawny bands on each side, pale testaceous beneath. Legs tawny: femora and fore legs black; tibiæ with two blackish bands; tips of the tarsi brown. Wings brown, limpid at the tips; veins black. Halteres tawny. Length of the body 5—7 lines; of the wings 12 lines.

a. Shanhgai, North China. From Mr. Cuming's collection.
b. Shanghai, North China. From Mr. Fortune's collection.

106. Stratiomys diffusa.

Fœm. *Nigra, testaceo-tomentosa; caput antice et subtus testaceum; antennæ ferrugineæ, capite multo breviores; scutelli spinæ testaceæ; abdomen piceum, basi subtusque testaceum; pedes testacei; alæ limpidæ, venis halteribusque fulvis.*

Fem. Black, with testaceous tomentum. Head testaceous in front and beneath. Antennæ ferruginous, much shorter than the head. Scutellum with testaceous spines. Abdomen piceous, dull testaceous towards the base; under side and legs testaceous. Wings limpid; veins and halteres tawny. Length of the body 4 lines; of the wings 8 lines.

a. Java. From the collection of the East India Company.

107. Stratiomys minuta.

Anthracina; caput album, guttis quatuor fasciaque verticali nigris; thorax aurario-hirtus; scutellum albo marginatum; abdomen fuscum, margine incisurisque stramineis; pedes albi, femoribus tibiisque posticis annulo nigro; alæ limpidæ.

Stratiomys minuta, *Fabr. Ent. Syst.* iv. 268, 22; *Syst. Antl.* 86, 32. *Wied. Auss. Zweifl.* ii. 74, 23.

a. East Indies. From Mr. Saunders' collection.

108. Stratiomys pusilla.

Nigra; scutellum bispinosum, albo marginatum; abdomen album; pedes albidi, tibiis posticis femoribusque basi nigro-fuscis; alæ limpidæ.

Nemotelus pusillus, *Fabr. Ent. Syst.* iv. 271, 5; *Syst. Antl.* 89, 5.
Stratiomys pusilla, *Weid. Auss. Zweifl.* ii. 75, 24.

Tranquebar.

New Holland.

109. Stratiomys Amyris.

Odontomyia Amyris, *Cat. of Diptera*, Pt. 3, 535.

110. Stratiomys Ialemus.

Odontomyia Ialemus, *Cat. of Diptera*, Pt. 3, 533.

a. New Holland. Presented by R. Butler, Esq.

111. Stratiomys picea.

Odontomyia picea, *Diptera Saundersiana*, Pt. 2, 78.

Van Dieman's Land.

A. Abdomen violaceo-nigrum. - - - scutellata, *Macq.*
B. Abdomen nigrum. - - - - stricta, *Erichs.*
C. Abdomen nigro-fuscum, maculis duabus basalibus viridibus. - - - - Hunteri, *King.*
D. Abdomen pallidum vitta nigra.
A. Scutellum fulvum. - - - - - carinata, *Macq.*
B. Scutellum nigrum.
a. Thoracis latera nigra. - - - Regis Georgii, *Macq.*
b. Thoracis latera fulva. - - - - stylata, *Macq.*

112. Stratiomys scutellata.

Fœm. *Atra, nitida; scutellum flavum, spinis elongatis elevatis nigris; abdomen violaceo-nigrum, ventre viridi; alæ hyalinæ.*

Odontomyia scutellata, *Macq. Dipt. Exot. Suppl.* i. 52, 19, pl. 5, f. 7.

Tasmania.

113. Stratiomys stricta.

Nigra, angustula, nitida; caput fasciola frontali orbitaque postica flavis; scutellum bispinosum; pedes testacei, femoribus basi tibiis annulo ante medium tarsisque apice nigris; pedes antici tibiis interne ad apicem usque tarsisque totis nigris; alæ hyalinæ, venis flavidis; halteres fuscescentes, capitulo flavido.

Odontomyia stricta, *Erichson, Archiv. Naturg.* 1842, i. 272, 251.

New Holland.

114. Stratiomys Hunteri.

Nigro-fusca, tomentosa; postscutellum flavum; abdomen maculis utrinque basim versus duabus viridibus, subtus viride; pedes flavi.

Stratiomys Hunteri, *King, Narrat. Survey Austral.* ii. 467, 181, *Wied. Auss. Zweifl.* ii. 77, 28.

New Holland.

115. Stratiomys carinata.

Nigra ; scutellum fulvum ; abdomen viride maris, *fulvum* fœminæ, *vitta nigra recta ; pedes fulvi : alæ hyalinæ.*

Odontomyia carinata, *Macq. Dipt. Exot. Suppl.* i. 52, 18.
Tasmania.

116. Stratiomys Regis Georgii.

Mas. *Nigra ; abdomen viride, fascia dorsali nigra angusta.*

Odontomyia Regis Georgii, *Macq. Dipt. Exot.* i. 1, 186, 6.
King George's Port, New Holland.

117. Stratiomys stylata.

Nigra ; antennæ subtus fulvæ, arista brevi ; facies carinata ; thoracis latera fulva ; abdomen viride, vitta dorsali nigra ; pedes fulvi ; alæ hyalinæ.

Odontomyia stylata, *Macq. Dipt. Exot. Suppl.* 2, 30, 23.
New Holland.

New Zealand.

118. Stratiomys dorsalis.

Odontomyia dorsalis, *White, Cat. of Diptera*, Pt. 3, 536.
a, b. Auckland, New Zealand. Presented by Col. Bolton.

119. Stratiomys fulviceps.

Fœm. *Nigra ; caput fulvum, proboscide et antennis nigris ; thorax aurato-hirtus, lateribus pectoreque fulvis ; scutellum testaceum ; abdomen utrinque fulvum, subtus testaceum ; pedes fulvi ; alæ limpidæ, basi fuscescentes, venis fuscescentibus ; halteres testacei.*

Stratiomys fulviceps, *White, MSS.*

Fem. Black. Head tawny. Proboscis and antennæ black. Thorax clothed with gilded hairs, tawny along each side. Pectus tawny. Scutellum testaceous. Abdomen tawny along each side, testaceous beneath. Legs tawny. Wings limpid, tinged with brown towards the base; veins brownish. Halteres testaceous. Length of the body 4 lines; of the wings 8 lines.

120. Stratiomys chloris.

Fœm. *Nigra; caput fulvum, vertice et antennis nigris; thoracis latera viridi vittata; pectus et scutellum fulva; abdomen utrinque et subtus viride; pedes fulvi; alæ limpidæ, basi subfuscescentes, venis fulvis; halteres virides.*

Odontomyia chloris, *White, MSS.*

Fem. Black. Head tawny; vertex and antennæ black. Thorax with a green stripe on each side. Pectus mostly tawny. Scutellum tawny. Wings limpid, very slightly brownish at the base; veins tawny. Halteres green. Length of the body 4 lines; of the wings 8 lines.

a. Auckland, New Zealand. Presented by Col. Bolton.

121. Stratiomys angusta.

Nigra, angusta, subtus albo-tomentosa; caput fulvum, vertice et faciei disco nigris; thoracis latera et pectus fulva; pedes nigricantes, tibiis anticis fulvis; alæ subcinereæ, basi fuscæ, venis nigris.

Fem. Body black, narrow, clothed beneath with white tomentum. Head tawny; vertex and disk of the face black. Thorax along each side and pectus tawny. Legs nearly black; fore tibiæ tawny. Wings grayish, brown towards the base; veins black. Length of the body 3¾ lines; of the wings 7 lines.

a. Auckland, New Zealand. Presented by Col. Bolton.

122. Stratiomys analis.

Nigra; thorax fusco-æneus, scutello bidentato; abdomen apice striga interrupta alba; alæ hyalinæ, basi nigræ.

Stratiomys analis, *Fabr. Syst. Antl.* 83, 21. *Wied. Auss. Zweifl.* ii. 76, 27.

Isles of the Pacific Ocean.

Country unknown.

123. STRATIOMYS LUTATIUS.

Odontomyia Lutatius, *Cat. of Diptera*, Pt. 3, 532.

124. STRATIOMYS EXCOCTA.

Odontomyia excocta, *Diptera Saundersiana*, Pt. 2, 78.

125. STRATIOMYS EXUL.

Odontomyia exul, *Diptera Saundersiana*, Pt. 2, 79.

126. STRATIOMYS FUSCIPENNIS.

Mas. *Nigra; abdomen viride, fascia nigra lata paullo sinuata; alæ fascia longitrorsum fusca.*

Odontomyia fuscipennis, *Macq. Dipt. Exot.* i. 1, 190, 15.

Genus 12. ALLIOCERA.

Antennæ capitatæ.

Alliocera, *Saunders.*

This genus has all the characters of the first section of *Stratiomys* with the exception of the capitate antennæ. Mediastinal vein ending at much beyond half the length of the wing. Subcostal and radial ending at very little beyond the mediastinal. First branch of the cubital straight, extremely short, ending at beyond half the length between the radial and the second branch which ends at far in front of the tip of the wing. Four curved externo-medial veins which are incomplete or do not reach the border. Sub-anal joining the anal at some little distance from the border. Discal veinlets forming one side of the pentagonal elongate discal

areolet. Median veinlet distinct, very short. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete, as are also the axillary and the subaxillary lobes. Subapical areolet occupying the tip of the wing. Four incomplete externo-medial areolets.

1. ALLIOCERA GRÆCA.

Nigra; caput flavum, vertice nigro; thorax fulvo-pubescens; scutellum postice flavum, bispinosum; abdomen fasciis sex lateralibus abbreviatis arcuatis maculaque conica apicali flavis; pedes flavi, tibiis intermediis extus fusco vittatis; alæ vix subflavescentes, venis flavis.

Alliocera Græca, *Saunders.*

Genus 13. CLITELLARIA.

Antennæ 9-articulatæ; articulus 1us et 2us æquales; flagellum obclavatum; arista distincta, biarticulata. Scutellum bispinosum.

Musca, p., *Schæffer; Herbst.; Schr.; Gmel.; Geoffr.*
Stratiomys, p., *Fabr.; Schr.; Panz.*
Clitellaria, *Meig. Zweifl.* iii. 119.
Ephippium, *Latr.; Macq.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at a little beyond the mediastinal. Radial ending at two-thirds of the length. First branch of the cubital straight, very short, ending at nearly two-thirds of the distance between the radial and the second branch which ends at much in front of the tip of the wing. Four complete nearly straight externo-medial veins. Subanal united to the anal at some distance from the border. Discal veinlets forming one side of the oblong pentagonal areolet. Median veinlet distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and four externo-medial veins complete, as are also the axillary and the subaxillary lobes. Subapical areolet occupying the tip of the wing.

1. CLITELLARIA EPHIPPIUM.

Nigra; thorax sanguineus, bispinosus; alæ ferrugineo-fuscæ.

Stratiomys Ephippium, *Fabr.*
Ephippium thoracicum, *Guér. Icon. Règne Anim. Ins.* pl. 98, f. 7, *Texte*, 544.
Clitellaria Ephippium, *Zeller, Isis*, 1842, §26, 9.
a, *b*. England. From Mr. Stephens' collection.

2. Clitellaria Dahlii.

Fœm. *Nigra, argenteo-pilosa; frons apud antennas albo bimaculata; antennæ capite paullo longiores; thorax nigro trivittatus; abdomen cinereo-pubescens, apud incisuras pallidius; alæ cinereæ, stigmate rufescente.*

Clitellaria Dahlii, *Meig. Zweifl.* vi. 5.
Ephippium Dahlii, *Macq. Hist. Nat. Dipt.* i. 252.
Ragusa.

West Indies.

3. Clitellaria Anchialus.

Clitellaria Anchialus, *Cat. of Diptera*, Pt. 3, 522.

This species differs from the typical *C. ephippium* in the following characters. The first branch of the cubital vein ends at half the distance between the radial and the second branch, and the discal areolet is hexagonal.

4. Clitellaria chalybea.

Chalybea; antennæ nigræ; thorax vittis tribus, abdomen utringue maculis duabus albo-pilosis; scutellum bispinosum; alæ limpidæ.

Clitellaria chalybea, *Wied. Anal. Ent.* 30, 36; *Auss. Zweifl.* ii. 49, 4.
Isle St. Thomas.

South America.

5. Clitellaria Halala.

Clitellaria Halala, *Cat. of Diptera*, Pt. 3, 523.

This species and *C. Amenides* will form a sub-genus of *Clitellaria* which may be thus characterized:—

Sub-genus. ARTEMITA.

Antennæ vix stylatæ. Thorax elongatus, antice angustatus. Scutellum spinis quatuor parvis armatum. Abdomen crassum, fere rotundum, thorace latius et multo brevius.

Subanal vein united to the anal very near the border. Discal areolet hexagonal.

6. CLITELLARIA FENESTRATA.

Nigra; thoracis vittis albidis; abdomen fasciis flavidis interruptis; tarsi basi fulvi; alæ fuscæ, areola discali hyalina.

Ephippium fenestrata, *Macq. Dipt. Exot. Suppl.* i. 54, 3.

Merida, Yucatan.

7. CLITELLARIA UNICOLOR.

Purpureo-cyanea; antennæ nigræ; alæ nigro-fuscæ; halteres virides.

Body and legs purplish blue. Eyes, antennæ and proboscis black. Wings brownish black. Halteres apple-green. Length of the body 7 lines; of the wings 14 lines.

c. Ega, Amazon River. From Mr. Bates' collection.

Africa.

8. CLITELLARIA FLAVIPES.

Nigra; antennæ incrassatæ; thorax aurario-hirtus; scutellum bispinosum; pedes ferruginei; alæ fuscæ.

Clitellaria flavipes. *Wied. Auss. Zweifl.* ii. 47, 2.
Stratiomys flavipes, *Fabr. Suppl.* 555, 9; *Syst. Antl.* 80, 10.
Ephippium flavipes, *Macq. Dipt. Exot.* i. 1, 191, 1.

Algiers. Oran.

9. CLITELLARIA RUFITARSIS.

Mas. *Nigra, flavo-pilosa ; genua tarsis rufæ ; alæ subcinereæ.*

Ephippium rufitarse, *Macq. Dipt. Exot.* i. 1, 192, 2.
Clitellaria flavipes, *Mas ?*
Oran.

East Indies.

10. CLITELLARIA TENEBRICA.

Clitellaria tenebrica, *Cat. of Diptera*, Pt. 3, 522. Java

11. CLITELLARIA BIVITTATA.

Nigra ; thorax cinereo bivittatus, bispinosus ; scutellum spinis duabus elongatis ; abdomen trifariam albo maculatum ; alæ nigro-fuscæ, basi hyalinæ.

Clitellaria bivittata, *Wied. Auss. Zweifl.* ii. 40, 1.
Stratiomys bivittata, *Fabr. Syst. Antl.* 79, 5.
Java. Sumatra.

12. CLITELLARIA HEMINOPLA.

Nigra ; antennæ rufo-fuscæ ; thorax flavido-hirtus ; scutellum bispinosum ; abdomen albo varium ; alæ subfuscescente-cinereæ.

Clitellaria heminopla, *Wied.*

13. CLITELLARIA ANGUSTA.

Fœm. *Cyaneo-nigra ; frons basi albo-pilosa ; thorax rufescente-hirtus ; abdomen subelongatum ; alæ fuscæ.*

Ephippium angustum, *Macq. Hist. Nat. Dipt.* i. 252, 2.
Java.

14. Clitellaria varia.

Mas. *Nigro-cyanea, argenteo-tomentosa; caput flavum; antennæ fulvæ, apice nigræ; thorax elongatus, antice angustatus et niger, fasciis tribus tomentosis, antica aurata, posterioribus argenteis; scutellum dentibus quatuor minimis; abdomen subsulcatum, apice truncatum, thorace multo brevius et latius; pedes nigri, genubus fulvis; alæ fuscæ, basi fere limpidæ, venis nigris; halteres lutei.*

Male. Dark blue. Head yellow. Antennæ tawny, with black tips. Thorax elongate, narrow and black in front, with three interrupted downy bands; first band broad, gilded; second and third silvery, narrow. Scutellum and abdomen with silvery down, the former with four very minute teeth, the latter not longer than broad, much shorter and broader than the thorax, with a slight longitudinal furrow, truncated at the tip. Legs black; knees tawny. Wings dark brown, nearly limpid towards the base and thence along part of the hind border; veins black. Halteres luteous. Length of the body 4 lines; of the wings 8 lines.

a. Java. From the collection of the East India Company.

New Holland.

15. Clitellaria cuprea.

Clitellaria cuprea, *Cat. of Diptera*, Pt. 3, 524.

This species will form a sub-genus:—

Sub-genus. ANTISSA.

Mas. Antennæ capite multo breviores; flagellum conicum, stylo brevi crasso. Thorax brevis, latus. Scutellum spinis quatuor minimis. Abdomen rotundum, thorace multo latius non longius.

Third externo-medial vein incomplete. Subanal vein joining the anal at some little distance from the border. Discal areolet heptagonal.

Country unknown.

16. Clitellaria Amenides.

Clitellaria Amenides, *Cat. of Diptera*, Pt. 3, 523.

17. CLITELLARIA RUFA.

Clitellaria rufa, *Cat. of Diptera*, Pt. 3, 524.

Genus 14. PLATYNA.

Scutellum unispinosum. Abdomen transversum.

Platyna, *Wied. Anal. Ent.* 12; *Auss. Zweifl.* ii. 52; *Macq.*
Stratiomys, p., *Fabr.*

1. PLATYNA HASTATA.

Nigra; thorax aurarius; abdomen valde dilatatum; pedes albi, femoribus basi nigris; alæ hyalinæ, fascia media abbreviata nigra.

Stratiomys hastata, *Fabr. Syst. Antl.* 84, 24.
Platyna hastata, *Wied. Anal. Ent.* 12, f. 2; *Auss. Zweifl.* ii. 53, 1, pl. 8, f. 3, a, b, c. *Macq. Hist. Nat. Dipt.* i. 256, 1.

Guinea.

Genus 15. CYCLOGASTER.

Antennæ 9-articulatæ. Scutellum muticum. Abdomen orbiculatum.

Stratiomys, p., *Fabr.*
Clitellaria, p., *Meig.; Wied.*
Cyclogaster, *Macq. Hist. Nat. Dipt.* i. 256.

Wings like those of *Clitellaria.*

Europe.

1. CYCLOGASTER VILLOSA.

Nigra; thorax rufo-hirtus; abdomen utrinque strigis tribus lateralibus albis; alæ fusco-flavidæ, ad costam obscure fuscæ.

Nemotelus villosus, *Fabr. Ent. Syst.* iv. 270, 2; *Syst. Antl.* 88, 2. *Panz. Faun. Germ.* lviii. 16. *Coqueb. Illustr.* 100, pl. 23, f. 3.
Clitellaria villosa, *Meig. Zweifl.* iii. 120, 1; vii. 105.
Cyclogaster villosa, *Macq. Hist. Nat. Dipt.* i. 257, 1.

Germany. Hungary. Piedmont. Sicily. Morea.

2. Cyclogaster calva.

Nigra; thorax cinereo-hirtus; abdomen utrinque strigis tribus lateralibus albis; alæ fusco-flavidæ, ad costam obscure fuscæ.

Clitellaria calva, *Megerle; Meig. Zweifl.* iii. 121, 2.
Austria.

3. Cyclogaster pacifica.

Nigra; thorax flavicante-hirtus; abdomen maculis transversis flavis; pedes flavidi, femoribus tibiisque nigro cinctis; alæ flavescentes.

Clitellaria pacifica, *Hoffm. Meig. Zweifl.* iii. 121, 3.
Portugal.

South America.

4. Cyclogaster atrata.

Anthracina; scutellum inerme; tarsi albidi; alæ nigro-fuscæ.

Clitellaria atrata, *Wied. Auss. Zweifl.* ii. 49, 5, pl. 7, f. 10.
Stratiomys atrata, *Fabr. Syst. Antl.* 83, 23.
Cyclogaster atrata, *Macq. Hist. Nat. Dipt.* i. 257, 2.

Genus 16. XENOMORPHA.

Fœm. Caput parvum. Antennæ 7-articulatæ, breves; articuli 1us et 2us breves, hic crassus; 3us minor; 4us, 5us, 6us, et 7us minimi, brevissimi, pubescentes; 7us apice obtusus. Ocelli distincti. Scutellum muticum. Abdomen valde elongatum et attenuatum. Pedes elongati, graciles; tarsi longi.

Mediastinal vein ending at a little before half the length of the wing. Subcostal ending at a little beyond the mediastinal. Radial ending at a little before two-thirds of the length. Cubital not forked, ending at some distance in front of the tip of the wing. First, second and fourth externo-medial veins complete, third rudi-

mentary. Subanal vein united to the anal at some distance from the border.

Xenomorpha, *Macq. Dipt. Exot.* i. 1, 193.

Discal veinlets forming two sides of the indistinctly heptagonal discal areolet. Median veinlet distinct. Humeral, subcostal, mediastinal, radial, cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and three externo-medial areolets complete. Axillary lobe and subaxillary lobe incomplete. Subapical areolet occupying the front of the tip of the wing.

1. XENOMORPHA LEPTIFORMIS.

Fœm. *Ferruginea; antennæ fulvæ, apice nigricantes; alæ rufescentes.*

Xenomorpha leptiformis, *Macq. Dipt. Exot.* i. 1, 193, 1, pl. 23, f. 1.
Rio Janeiro.

Genus 17. EUDMETA.

Antennæ 5-articulatæ, glabræ, elongatæ, lineares; articulus 1us brevis; arista brevis, villosa vel pubescens. Scutellum muticum. Abdomen elongatum. Pedes graciles, elongati. Alæ angustæ.

Hermetia, p., *Fabr.*
Eudmeta, *Wied. Auss. Zweifl.* ii. 43; *Macq.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal and radial ending at before two-thirds of the length. First branch of the cubital short, straight, ending at very little before two-thirds of the distance between the radial and the second branch. Four complete externo-medial veins. Subanal vein joining the anal at some little distance from the border. Median veinlet short, distinct. Discal areolet indistinctly heptagonal, with three primary sides, the fourth or apical one very short, and the other three almost obsolete. Subapical areolet occupying the tip of the wing.

1. EUDMETA MARGINATA.

Niger; thorax angulis, vittis scutelloque pomaceis; abdomen fuscum, pomaceo limbatum; femora apice flava; alæ hyalinæ, apice fuscæ.

Hermetia marginata, *Fabr.*

East Indies. Java. Sumatra.

Hermetia cingulalis (aut singularis), *Guér. Icon. Règne Anim. Ins.* pl. 98, f. 1, *Texte*, 543.

a. Java. From the East India Company's collection.

Genus 18. ACHROCHÆTA.

Color non metallicus. Facies declivis. Antennæ 9-articulatæ; flagellum elongatum, attenuatum; arista setiformis. Scutellum muticum, non tuberculatum. Abdomen elongatum.

Sargus, p., *Fabr.*
Acrochæta, *Wied. Auss. Zweifl.* ii. 42; *Perty*; *Macq.*

Mediastinal, subcostal, and radial veins ending very near together at hardly beyond half the length of the wing. First branch of the costal ending at beyond half the length between the radial and the second branch which ends at a little in front of the tip of the wing. First, second and fourth externo-medial veins complete, third incomplete. Subanal vein united to the anal at some distance from the border. Discal veinlets forming three sides of the heptagonal discal areolet. Median veinlet distinct, slightly curved. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and two externo-medial areolets complete. Two externo-medial areolets, axillary lobe, and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

1. Acrochæta Echemon.

Sargus Echemon, *Cat. of Diptera*, Pt. 3, 515.

a, *b*. Parà. From Mr. Bates' collection.

2. Acrochæta Haterius.

Sargus Haterius, *Cat. of Diptera*, Pt. 3, 516.

3. Acrochæta tincta.

Chrysochlora tincta, *Diptera Saundersiana*, Pt. 2, 82.

4. ACROCHÆTA PLANA.

Chrysochlora plana, *Diptera Saundersiana*, Pt. 2, 82.
Acrochæta Haterius, *Var.?*
Acrochæta elegans, *Var.?*

a. Colombia. From Mr. Saunders' collection.

5. ACROCHÆTA ELEGANS.

Fusca, subtus fusco-testacea; thorax vittis duabus lateribusque flavidis; abdominis segmenta marginibus posticis flavido fasciatis; pedes testacei; alæ hyalinæ, antice fuscescentes.

Acrochæta elegans, *Perty, Del. Anim. Artic.* 184, pl. 36, f. 15.

Brazil.

a. South America. From Mr. Saunders' collection.

6. ACROCHÆTA VESPERTILIO.

Cerina; thorax nigro quinquevittatus; abdomen fusco fasciatum; alæ flavescentes, macula apicali fusca.

Sargus vespertilio, *Fabr.*

Brazil. Venezuela.

7. ACROCHÆTA FASCIATA.

Flavida; antennæ nigro-fuscæ; thorax fusco vittatus; abdomen nigro-fuscum, flavido fasciatum; pedes flavescentes, femoribus posticis fusco strigatis; alæ flavescentes.

Acrochæta fasciata, *Wied. Auss. Zweifl.* ii. 42, pl. 9, f. 3. *Macq. Hist. Nat. Ins. Dipt.* i. 260, 1.

Brazil.

8. ACROCHÆTA CASTANEA.

Fœm. *Antennæ fusco-flavæ; thorax flavus, vittis quinque nigris; abdomen castaneum, fasciis tribus ventre pedibusque fulvis; alæ hyalinæ, ad costam subfuscæ.*

Chrysochlora castanea, *Macq. Dipt. Exot.* i. 1, 198, 2, pl. 25, f. 1. Guiana.

a—d. Parà. From Mr. Bates' colllection.

9. Acrochæta longiseta.

Fœm. *Flava; antennæ luteæ, flagello sat brevi, arista longa; thoraæ vittis tribus maculisque utrinque duabus lateralibus nigris; abdomen lutescens, fasciis dimidioque apicali fuscis; pedes lutescentes, antici flavi; alæ subcinereæ, ad costam fulvescentes, maculis duabus una costali altera subapicali fuscis.*

Yellow. Antennæ luteous; flagellum much shorter than that of *A. castanea;* arista longer. Thorax with three black stripes and with two black spots on each side. Abdomen brown; bands towards the base and under side pale luteous. Legs pale luteous; fore legs yellow. Wings slightly grayish; anterior half tawny, with a brown spot by the middle of the costa, and another near the tip. Length of the body 4—4½ lines; of the wings 10—12 lines.

a—c. Parà. From Mr. Bates' collection.

10. Acrochæta breviseta.

Fœm. *Testacea; antennæ fulvæ, apice nigræ, flagello elongato, arista brevi; thorax vittis tribus et scutellum fascia nigris, abdomen fulvum; pedes testacei; alæ subcinereæ, apud discum sublimpidæ, costæ dimidio basali fulvescente, macula media costali fusca.*

Testaceous. Antennæ tawny; flagellum as long as that of *A. castanea* and less tapering; arista not half the length. Thorax with three black stripes, the side pair interrupted. Scutellum with a black band. Abdomen tawny. Legs testaceous. Wings grayish, nearly limpid in the disk, tawny along the costa, especially towards the base, with a brown spot between the costa and the discal arcolet, which is a little shorter than that of *A. longiseta* and much shorter than that of *A. castanea.* Length of the body 4 lines; of the wings 10 lines.

a, b. Parà. From Mr. Bates' collection.

Genus 19. OXYCERA.

Antennæ 8-articulatæ; articuli 1us et 2us breves; flagellum fusiforme; articulus 7us brevis; 8us longus, stylatus. Scutellum bispinosum. Abdomen rotundatum.

Musca, p., *Linn.*; *Scopoli*; *Donov.*
Stratiomys, p., *Fabr.*; *Gmel.*; *Panz.*; *Fall.*
Oxycera, *Meig. Zweifl.* iii.; *Macq.*; *Curt.*; *Zett.*; *Stæg.*; *Loew.*

Mediastinal, subcostal and radial veins ending near together beyond half the length of the wing. First branch of the cubital very short, ending at beyond half the distance between the radial and the tip of the second, which ends at far in front of the tip of the wing. Four secondary, slender, and incomplete externo-medial veins. Subanal united to the anal near the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet very short, but distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete. Four externo-medial areolets, axillary lobe, and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

Europe.

1. Oxycera Meigenii.

Nigro flavoque varia, lunula humerali flava.

Stratiomys Hypoleon, *Fabr. Sp. Ins.* ii. 418, 20; *Ent. Syst.* iv. 267, 20; *Syst. Antl.* 85, 29. *Preyssler, Verz.* i. 81, 75. *Panz. Faun. Germ.* i. 14.
Oxycera Hypoleon, *Meig. Zweifl.* iii. 124, 1. *Macq. Dipt. Nord. Strat.* 117, 1; *Hist. Nat. Dipt.* i. 250, 1. *Loew, Isis*, 1840, 555, 1.
Oxycera Meigenii, *Stæg. Ent. Zeit.* v. 410, 2. *Loew, Dipt. Beitr.* ii. 1, pl. f. 1, 2. *Gimmerth. Bull. Soc. Imp. Nat. Mosc.* 1847, 168, 1.

France. Germany. Denmark. Russia.

a. Interlacken, Switzerland. Presented by F. Walker, Esq.

2. Oxycera Falleni.

Nigro flavoque varia; pedes flavi, femoribus anticis basi nigris.

Musca Hypoleon?? *Donov. Brit. Ins.* pl. 146, f. 2.
Stratiomys Hypoleon? *Gmel. ed. Syst. Nat.* v. 2835, 7.
Stratiomys Hypoleon, *Fall. Strat.* 10, 7.
Oxycera Hypoleon, *Zett. Dipt. Scand.* i. 142, 1.
Oxycera Falleni, *Stæger, Ent. Zeit.* v. 410, 3. *Loew, Dipt. Beitr.* 132, pl. f. 3, 4.

Germany. Denmark. Sweden.

3. Oxycera rara.

Nigro flavoque varia; pedes flavi, femoribus omnibus late nigris; alæ hyalinæ.

Musca rara, *Scopoli, Ent. Carn.* 339, 912.
Musca Hypoleon? *Donov. Brit. Ins.* pl. 146, f. 2.
Oxycera Hypoleon, *Meig. Classif.* 137, 1, pl. 8, f. 3. *Stæg. Ent. Zeit.* v. 409, 1. *Gimmerth. Bull. Soc. Imp. Nat. Mosc.* 1847, 168, 2.
Oxycera pulchella, *Meig. Zweifl.* iii. 125, 2. *Macq. Dipt. Nord. Strat.* 118, 2; *Hist. Nat. Dipt.* i. 249, 2. *Loew, Dipt. Beitr.* 14, 3, pl. f. 5, 6.

France. Germany. Denmark. Russia.

a—f. England. From Mr. Stephens' collection.

4. Oxycera dives.

Nigro flavoque varia; pedes nigri.

Stratiomys Hypoleon? *Schr. Faun. Boic.* iii. 96, 2385.
Oxycera dives, *Loew, Dipt. Beitr.* 15, 4, pl. f. 7, 8.

Germany.

5. Oxycera formosa.

Nigra; thorax lateribus scutelloque flavis; abdomen maculis lateralibus maris *duabus* fœminæ *tribus anoque flavis; pedes flavi; alæ limpidæ.*

Oxycera formosa, *Wied.*; *Meig. Zett. Dipt. Scand.* i. 115, 5.
a. England. From Mr. Stephens' collection.

6. Oxycera maculata.

Fœm. *Nigra; facies argenteo-micans; maculis capitis* 6, *abdominis totidem, thoracisque* 4, *striisque dorsalibus* 2 *abbreviatis, scutelli fascia transversa lata spinisque flavis; pedes flavi, femorum basi late, annuloque tibiarum nigricantibus.*

Oxycera maculata, *Zett. Ins. Lapp.* 576; *Dipt. Scand.* i. 145, 4.
Sweden. Lapland.

7. Oxycera leonina.

Nigra; thorax linea laterali scutelloque flavis; abdomen basi apiceque flavum; pedes flavi, femoribus nigris; alæ limpidæ.

Stratiomys leonina, *Panz.*
Oxycera leonina, *Meig. Zweifl.* vii. 105, 8. *Loew, Isis.* 1840, 556, 2.

8. Oxycera muscaria.

Nigra; thorax maris *vitta laterali interrupta flava,* fœminæ *flavus nigro trivittatus; abdomen maculis lateralibus connexis flavis; pedes flavi; alæ limpidæ.*

Stratiomys muscaria, *Fabr.*

Var. *Nigra; thorax linea laterali straminea; abdomen posticum margine stramineo; femora basi genuaque fulva; alæ limpidæ, costa fusca.*

Stratiomys pygmæa, *Fall.*
Oxycera pygmæa, *Zett. Dipt. Scand.* i. 115, 6.

9. Oxycera pardalina.

Nigra; thorax linea laterali straminea; abdomen maculis duabus lateralibus anoque stramineis; pedes fulvi; alæ limpidæ.

Oxycera pardalina, *Meig. Zett. Dipt. Scand.* i. 143, 3.

10. Oxycera Morrisii.

Nigra; thorax interrupte albido bivittatus; scutellum apice ochraceum; abdomen flavo quinquemaculatum; pedes flavi, tibiis posticis femoribusque plerumque nigris, tarsis nigris posterioribus basi albidis; alæ limpidæ.

Oxycera Morrisii, *Curt. Brit. Ent.* x.

a, *b*. England. Presented by J. C. Dale, Esq.

11. Oxycera terminata.

Nigra; thorax linea laterali scutelloque flavis; abdomen apice flavum; pedes fulvi, femoribus posticis apice fuscis; alæ limpidæ.

Oxycera terminata, *Megerle; Meig.*

12. Oxycera analis.

Nigra; thorax linea laterali scutelloque flavis; abdomen apice flavum; pedes flavi, femoribus nigris; alæ limpidæ, macula fusca.

Oxycera analis, *Megerle; Meig. Zweifl.* vii. 105, 10.

13. Oxycera longicornis.

Nigra, nitens; antennæ capite longiores; thorax vittis duabus lateralibus scutelloque flavis; pedes picei, tibiis basi femoribusque fulvis; alæ limpidæ.

Oxycera longicornis, *Haliday, MSS. Dale, Ann. Nat. Hist.* viii. 431.

a, *b*. England. Presented by J. C. Dale, Esq.

14. Oxycera nigricornis.

Nigra; caput flavum, linea frontali nigra; thorax lineis quatuor interruptis scutelloque flavis; abdomen flavo marginatum; pedes flavi; alæ limpidæ, venis flavis.

Oxycera nigricornis, *Macq. Dipt. Nord.* 119, 4. *Meig. Zweifl.* vii. 105, 11.

North France.

15. Oxycera nigra.

Nigra; thoracis latera flavo unilineata, puncto utrinque apud alas flavo; pedes metatarsis posticis genubusque flavis.

Oxycera nigra, *Macq. Hist. Nat. Dipt.* i. 251, 8. *Meig. Zweifl.* vii. 106, 13.

Bourdeaux.

16. Oxycera tenuicornis.

Fœm. *Nigra; antennæ articulo 3o quam in cæteris longiore et graciliore; abdominis segmentum 4um flavo marginatum; tibiæ apices versus nigræ, posticæ omnino nigræ.*

Oxycera tenuicornis, *Macq. Hist. Nat. Dipt.* i. 251, 5. *Meig. Zweifl.* vii. 105, 12.

Bourdeaux.

17. Oxycera trilineata.

Viridis seu flavicans; thorax nigro trivittatus; abdomen fasciis nigris; alæ limpidæ.

Stratiomys trilineata, *Fabr.*
Oxycera trilineata, *Zett. Dipt. Scand.* i. 142, 2. *Loew, Isis,* 1840, 556, 3.

a—f. England. From Mr. Stephens' collection.

North America.

18. Oxycera variegata.

Fœm. *Flava; thorax vittis tribus et abdomen fasciis nigris.*

Oxycera variegata, *Oliv. MSS. Macq. Dipt. Exot.* i. 2, 191.
Oxycera trilineata, *Var.?*

Carolina.

19. OXYCERA MACULATA.

Fœm. *Nigra; antennæ fusco-flavæ; thoracis lineæ, scutellum, et abdominis maculæ, pedesque flava; alæ hyalinæ.*

Oxycera maculata, *Oliv. MSS. Macq. Dipt. Exot.* i. 2, 190.
Carolina.

West Indies.

20. OXYCERA LIBURNA.

Oxycera Liburna, *Cat. of Diptera*, Pt. 3, 528.

21. OXYCERA METALLICA.

Æneo-viridis; antennæ nigræ; abdomen chalybeum; pedes chalybei, tarsis posticis basi albis; alæ hyalinæ, costa nigro-fusca.

Oxycera metallica, *Wied. Auss. Zweifl.* ii. 60.
Isle St. Thomas.

Genus 20. HOPLISTES.

Corpus angustum, lineare. Antennæ 7-articulatæ; flagellum fusiforme; arista setiformis, dorsalis, longissima. Thorax productus. Scutellum bispinosum. Abdomen elongatum.

Sargus, p., *Wied.*
Hoplistes, *Macq. Hist. Nat. Dipt.* i. 253.

Mediastinal vein ending at beyond one-third of the length of the wing. Subcostal ending at before half the length. Radial ending at a little beyond half the length. First branch of the cubital ending at much beyond half the length between the radial and the second branch, which ends at a little in front of the tip of the wing. Four incomplete externo-medial veins. Subanal vein united to the anal at some distance from the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete. Four externo-medial areolets,

axillary lobe and subaxillary incomplete. Subapical areolet occupying the tip of the wing.

1. HOPLISTES BISPINOSUS.

Niger; antennæ luteæ; thoracis vittæ duæ et scutellum flava, hoc bispinosum; abdomen flavo marginatum; femora flava; tarsi albi; alæ limpidæ, costa fusca.

Sargus bispinosus, *Wied. Auss. Zweifl.* ii. 32, 8.
Hoplistes bispinosus, *Macq. Hist. Nat. Dipt.* i. 254, 1; *Dipt. Exot.* i. 1, 195, 1, pl. 23, f. 2.
Brazil.

2. HOPLISTES POMACEUS.

Niger; thorax vittis duabus, angulis scutelloque pomaceis; scutellum bispinosum; abdomen silaceo limbatum; femora flava, tarsi albi; alæ flavescentes.

Sargus hoplistes, *Wied. Auss. Zweifl.* ii. 30, 6.
Hoplistes pomaceus, *Macq. Hist. Nat. Dipt.* i. 254, 3.
Brazil.

3. HOPLISTES HORTULANUS.

Niger; antennæ basi pallidæ; thoracis vittæ duæ, anguli et scutellum abdominisque margo et fasciæ flava vel pomacea; scutellum bispinosum; pedes flavi; alæ ad costam flavescentes.

Sargus hortulanus, *Wied. Auss. Zweifl.* ii. 32, 9.
Hoplistes hortulanus, *Macq. Hist. Nat. Dipt.* i. 254, 2.
Brazil.

Genus 21. DICRANOPHORA.

Antennæ 7-articulatæ; articulus 1us brevis; 2us cyathiformis; 3us, 4us, 5us, et 6us brevissimi; 7us setiformis, terminalis, longissimus. Scutellum bispinosum. Abdomen elongatum. Femora intermedia spina angulata armata.

Sargus, p., *Wied.*
Dicranophora, *Macq. Hist. Nat. Dipt.* 255.

Mediastinal vein ending at before half the length of the wing. Subcostal ending at a little beyond half the length. Radial ending near the subcostal. First branch of the cubital short, ending at rather beyond half the length between the radial and the second branch, which ends at much in front of the tip of the wing. Four nearly complete externo-medial veins. Subanal vein united to the anal far from the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet short, distinct. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete. Four nearly complete externo-medial areolets. Axillary lobe and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

1. DICRANOPHORA FURCIFERA.

Niger, flavo pictus; antennæ flavæ; scutellum appendice longissimo apice furcato; pedes flavi, tibiis tarsisque anticis fuscis, tarsis posticis albis; alæ subflavescentes.

Sargus furcifer, *Wied. Analecta Ent.* 31, 40, f. 10; *Auss. Zweifl.* ii. 38, 20, pl. 7, f. 5.

Dicranophora furcifera, *Macq. Hist. Nat. Dipt.* i. 255, 1; *Dipt. Exot.* i. 1, 195, 1. *Guér. Icon. Règne Anim. Ins.* pl. 98, f. 12, *Texte*, 545.

Brazil.

2. DICRANOPHORA PICTA.

Niger; facies et frons fulvæ, hæc macula nigra; thorax humeris lineisque duabus dorsalibus scutellique dimidio postico flavis; abdominis segmentum 1um flavo marginatum; 3um, 4um et 5um lateribus flavis.

Dicranophora picta, *Macq. Hist. Nat. Dipt.* i. 255, 2; *Dipt. Exot.* i. 1, 196, 2, pl. 24, f. 1.

Brazil.

Genus 22. RHAPHIOCERA.

Antennæ 9-articulatæ; flagellum subulatum; arista setiformis, longissima. Scutellum bispinosum. Abdomen elongatum.

Sargus, p., *Wied.*

Rhaphiocera, *Macq. Hist. Nat. Dipt.* i. 253.

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at a little before two-thirds of the length. Radial ending at a little beyond two-thirds of the length First branch of the cubital short, ending at a little before half the length between the radial and the second branch, which ends at some distance in front of the tip of the wing. Four more or less incomplete externo-medial veins. Subanal vein united to the anal at a short distance from the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet rather long. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete. Four externo-medial areolets, axillary lobe, and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

1. Rhaphiocera armata.

Atra; thoracis vittæ angulique, scutellum, abdominisque maculæ transversæ viridia; scutellum bispinosum; tibiæ fulvæ; tarsi albidi; alæ costa et apice subcinereæ.

Sargus armatus, *Wied. Auss. Zweifl.* ii. 29, 5.
Rhaphiocera armata, *Macq. Hist. Nat. Dipt.* i. 253, 1; *Dipt. Exot.* i. 1, pl. 24, f. 2; *Suppl.* 1, 54.

Brazil.

2. Rhaphiocera Falleni.

Nigra; caput, thoracis vittæ duæ dorsales, maculæ duæ anticæ duæque posticæ, scutellum, abdominisque maculæ laterales viridia; pedes testacei, tibiis fuscis, tarsis albidis; alæ limpidæ.

Sargus Falleni, *Perty, Delect. Anim. Artic.* 184, pl. 37, f. 1.

a. South America. From Mr. Saunders' collection.

3. Rhaphiocera ornata.

Fœm. *Nigra; thorax flavo varius; abdomen cærulescens; alæ violaceo-fuscæ.*

Rhaphiocera ornata, *Macq. Dipt. Exot. Suppl.* i. 55, 2, pl. 6, f. 1.

New Grenada. Temperate Region.

4. RHAPHIOCERA BIPARTITA.

Mas. *Nigra; thorax et abdomen viridi flavoque varia; alæ antice hyalinæ, postice fuscæ.*

Rhaphiocera bipartita, *Macq. Dipt. Exot. Suppl.* i. 54, 1, pl. 6, f. 1.
Colombia.

5. RHAPHIOCERA INERMIS.

Nigra; antennæ flavæ; thoracis vittæ, anguli, et scutellum abdomenque basi viridia; abdomen fuscum, sulphurino limbatum; femora flava; tarsi posteriores albi, apice nigro-fusci; alæ hyalinæ, ante apicem dilatatæ.

Sargus inermis, *Wied. Auss. Zweifl.* ii. 31, 7, pl. 7, f. 7.
Brazil.

6. RHAPHIOCERA? SPINITHORAX.

Nigra; thorax vittis duabus flavidis, spina utrinque armatus; abdomen nigro-cyaneum, lateribus maculisque dorsalibus albis; alæ fuscæ, costa basi hyalina, areolis quinque posticis.

Rhaphiocera spinithorax, *Macq. Dipt. Exot. Suppl.* 3, 17, 3, pl. 1, f. 7.
Clitellaria?
Java.

Genus 23. NEMOTELUS.

Epistoma porrectum, conicum. Antennæ 8-articulatæ; flagellum fusiforme; arista longa. Scutellum inerme. Abdomen depressum.

Musca, p., *Linn.; Gmel.*
Stratiomys, p., *Fabr.; Schr.*
Nemotelus, *Geoffr. Ins.* ii.; *Fabr.; Meig.; Panz.; Latr.; Fall.; Macq.; Curt.; Zett.*

Mediastinal and subcostal veins ending at hardly beyond half the length of the wing. First branch of the cubital short, ending at much beyond half the length between the subcostal and the

second branch, which ends at far in front of the tip of the wing. Four externo-medial veins secondary, but complete. Subanal vein joining the anal at some little distance from the border. Discal veinlets secondary, forming two sides of the more or less hexagonal discal areolet. Median veinlet obsolete or extremely short. Humeral, mediastinal, subcostal, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and four externo-medial areolets complete. Axillary lobe and subaxillary lobe incomplete. Subapical areolet in front of the tip of the wing.

Europe.

1. NEMOTELUS ULIGINOSUS.

Niger; thorax vitta laterali alba; abdomen maris *album macula nigra ante apicem*, fœminæ *nigrum margine punctisque albis; pedes albi, tibiis posticis femoribusque nigris; alæ limpidæ.*

Musca uliginosa, *Linn.*

Nemotelus uliginosus, *Zett. Dipt. Scand.* i. 146, 1. *Loew, Isis*, 1840, 554, 2.

a—f. England. From Mr. Stephens' collection.

Var.? Nemotelus paludosus, *Meig. Zweifl.* vi. 345, 8. *Niger; abdomen album, postice linea transversa interrupta nigra, ventre maculis lateralibus trigonis nigris.*

2. NEMOTELUS BIFASCIATUS.

Niger; abdomen album, fasciis duabus posticis nigris.

Nemotelus uliginosus, *Var. Meig. Zweifl.* vi. 345.

Nemotelus bifasciatus, *Meig. Zweifl.* vii. 104, 9. *Zett. Dipt. Scand.* i. 148, 2.

3. NEMOTELUS PANTHERINUS.

Niger; thorax immaculatus; abdomen maris *album macula nigra ante apicem*, fœminæ *nigrum margine punctisque albis; pedes albi, femoribus nigris; alæ limpidæ.*

Musca pantherina, *Linn.*

Nemotelus pantherinus, *Zett. Dipt. Scand.* i. 150, 4. *Loew, Isis*, 1840, 554, 3.

a—f. England. From Mr. Stephens' collection.

4. Nemotelus nigritus.

Fœm. *Niger; abdomen apice albidum; pedes flavido-albi, femoribus tibiisque posticis apice nigris; alæ limpidæ.*

Nemotelus nigritus, *Meig. Zweifl.* iii. 116, 3.

5. Nemotelus punctatus.

Niger; abdomen margine seriebusque tribus punctorum flavicantium; pedes flavo-albidi, femoribus tibiisque posticis apice nigris; alæ limpidæ.

Nemotelus punctatus, *Fabr. Ent. Syst.* iv. 271, 4; *Syst. Antl.* 88, 4. *Latr. Gen. Crust. et Ins.* iv. 277. *Coqueb. Illustr.* 101, pl. 23, f. 6. *Meig. Zweifl.* iii. 116, 4. *Macq. Hist. Nat. Dipt.* i. 266, 5.

France. North Africa.

6. Nemotelus nigrinus.

Niger, nitidus; genua tarsique flavicantia; alæ limpidæ.

Nemotelus nigrinus, *Fall. Stratiom.* b, 3. *Meig. Zweifl.* iii. 117, 5. *Zett. Ins. Lapp.* 575, 1; *Dipt. Scand.* i. 151, 5. *Loew, Isis*, 1840, 554, 1.

Nemotelus nigritus, *Panz. Faun. Germ.* cvii. 17.

a—f. England. From Mr. Stephens' collection.

7 Nemotelus brevirostris.

Niger, nitidus; caput antice brevissimum, obtusum; pedes albi; femoribus nigris; alæ limpidæ.

Nemotelus brevirostris, *Megerle; Meig. Zweifl.* iii. 117, 6. *Macq. Hist. Nat. Dipt.* i. 166, 6.

a—f. England. From Mr. Stephens' collection.

8. Nemotelus frontalis.

Fœm. *Niger; genua, tibiæ, tarsi et halteres alba; alæ limpidæ.*

Nemotelus frontalis, *Oliv. Enc. Méth.* viii. 184. *Macq. Hist. Nat.* i. 266, 4. *Meig. Zweifl.* vii. 105, 10.

France.

9. Nemotelus notatus.

Mas et Fœm. *Niger; facies breviuscula; frontis maculæ thoracisque linea lateralis niveæ; abdomen supra in* mare *album macula basali, puncto in medio fasciisque 2 apicalibus, nigris; in* fœmina *nigrum, margine, maculis dorsalibus tribus incisurisque tenuiter, albis; ventre pallido, lateribus nigro maculato; pedes flavi, femoribus omnibus tibiarumque posticarum medio nigris.*

Nemotelus notatus, *Stæger, MSS. Zett. Dipt. Scand.* i. 148, 3.

Denmark.

Var.? Nemotelus ventralis, *Meig. Dipt.* vi. 345, 7. *Niger; thorax vitta laterali alba; abdomen album, postice macula dentata nigra, ventre maculis lateralibus nigris.*

North Africa.

10. Nemotelus Pica.

Niger, epistomate valde producto. Mas, *abdomen album, superne fasciis duabus, inferne fasciis iisdem maculisque magnis lateralibus nigris.* Fœm. *Frons bilineata; abdomen nigrum, albo marginatum, serie triplici punctatum.*

Nemotelus Pica, *Loew, Isis,* 1840, 554, 4. *Gimmerth. Bull. Soc. Imp. Nat. Mosc.* 1847, 167, 1.

Posen.

11. Nemotelus ærosus.

Fusco-æneus; abdomen nigrum, margine punctisque albo-flavescentibus; alæ hyalinæ, venis costalibus flavescentibus.

Nemotelus ærosus, *Gimmerthal, Bull. Soc. Imp. Nat. Mosc.* 1847, 167, 2.

Russia.

North America.

12. NEMOTELUS CARNEUS.

Nemotelus carneus, *Cat. of Diptera*, Pt. 3, 521.

13. NEMOTELUS PALLIPES.

Niger; abdomen chalybescens; pedes lutei, femoribus posticis nigricantibus; alæ limpidæ.

Nemotelus pallipes, *Say, Journ. Philad. Acad.* iii. 29. *Wied. Auss. Zweifl.* ii. 45, 2.

Pennsylvania.

South America.

14. NEMOTELUS SINGULARIS.

Violaceus; antennæ sub apice rostri insertæ; thorax postice et abdomen apud marginem viridia; tibiæ basi femora antica fulva; tarsi albido-flavi; alæ cinereæ.

Nemotelus singularis, *Macq. Dipt. Exot. Suppl.* i. 57, 2, pl. 6, f. 4.

Colombia.

Africa.

15. NEMOTELUS CAPENSIS.

Nemotelus Capensis, *Diptera Saundersiana*, Pt. 2, 80.

16. NEMOTELUS LONGIROSTRIS.

Niger; caput antice valde productum, proboscide elongato-porrecta; abdomen flavo notatum; tarsi flavi; alæ subflavescentes.

Nemotelus longirostris, *Wied. Anal. Ent.* 30, 38; *Auss. Zweifl.* ii. 45, 1, pl. 7, f. 8. *Macq. Hist. Nat. Dipt.* i. 267, 8.

Tangier.

17. NEMOTELUS NILOTICUS.

Mas. *Niger ; abdomen albidum, basi macula nigra ; pedes fulvi, femoribus basi nigris ; alæ hyalinæ.*

Nemotelus niloticus, *Olivier, MSS. Macq. Dipt. Exot.* i. 1, 205, 1, pl. 25, f. 3 ; i. 2, 191.

Egypt.

Country unknown.

18. NEMOTELUS ADVENA.

Nemotelus advena, *Diptera Saundersiana*, Pt. 2, 80.

Genus 24. BIASTES.

Biastes, *Diptera Saundersiana*, Pt. 2, 80.

1. BIASTES INDICUS.

Biastes Indicus, *Diptera Saundersiana*, Pt. 2, 81.

a. East Indies. From Mr. Saunders' collection.

Genus 25. METABASIS.

Metabasis, *Diptera Saundersiana*, Pt. 2, 81.

1. METABASIS ROSTRATUS.

Metabasis rostratus, *Diptera Saundersiana*, Pt. 2, 81.

Brazil.

Genus 26. BASENTIDEMA.

Corpus longum, lineare. Facies declivis. Antennæ 7-articulatæ ; articulus 1us conicus ; 2us cyathiformis ; 3us, 4us, 5us, et 6us brevissimi, flagellum rotundatum fingentes ; 7us setiformis, longissima, terminalis. Scutellum muticum, bituberculatum. Abdomen elongatum. Tibiæ posticæ subindentatæ.

Basentidema, *Macq. Dipt. Exot.* i. 1, 197.

Mediastinal vein ending at about half the length of the wing. Subcostal ending at a little beyond the mediastinal. Radial ending at rather before two-thirds of the length. First branch of the cubital short, ending at much beyond half the length between the radial and the second branch, which ends at a little in front of the tip of the wing. Four incomplete externo-medial veins. Subanal vein united to the anal at some distance from the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet extremely short. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, and discal areolets complete. Four externo-medial areolets, axillary lobe, and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

1. BASENTIDEMA SYRPHOIDES.

Fœm. *Nigra; antennæ basi, thoracis vittæ duæ, abdominis maculæ laterales pedesque fulva; alæ subflavæ.*

Basentidema syrphoides, *Macq. Dipt. Exot.* i. 1, 197, 1, pl. 21, f. 3.

Brazil.

Genus 27. CHRYSOCHLORA.

Color metallicus. Antennæ 7-articulatæ; articulus 1us elongatus; flagellum attenuatum; arista elongata setiformis. Abdomen elongatum.

Sargus, p., *Fabr.*; *Wied.*
Chrysochlora, *Latr. Règne Anim.* v. 486; *Macq.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal and radial veins ending at about two-thirds of the length. First branch of the cubital straight, very short, ending at much beyond half the length between the radial and the second branch, which is at some distance in front of the tip of the wing. First, second, and fourth externo-medial veins complete; third incomplete. Subanal vein united to the anal far from the border. Median veinlet short, distinct. Discal areolet hexagonal.

South America.

1. CHRYSOCHLORA HIRTICORNIS.

Nigra; caput, antennæ, scutellum, abdomen basi vittaque pedesque lutea; alæ nigro-fuscæ.

Sargus hirticornis, *Wied. Auss. Zweifl.* ii. 28, 3.
Chrysochlora hirticornis, *Macq. Hist. Nat. Dipt.* i. 258, 3. *Guér. Icon. Règne Anim. Ins.* pl. 98, f. 10, *Texte*, 545.

Brazil.

Asia.

2. CHRYSOCHLORA AMETHYSTINA.

Violacea; antennæ nigræ; pedes nigro-picei, tibiis anticis testaceis; alæ fuscæ.

Sargus amethystinus, *Fabr.*
Chrysochlora amethystinus, *Macq. Dipt. Exot.* i. 1, 198, 1.

Country unknown.

3. CHRYSOCHLORA ANDREAS.

Chrysochlora Andreas, *Cat. of Diptera*, Pt. 3, 515.

4. CHRYSOCHLORA ANNULIPES.

Chrysochlora annulipes, *Cat. of Diptera*, Pt. 3, 515.

Genus 28. CACOSIS.

Cacosis, *Diptera Saundersiana*, Pt. 2, 83.

1. CACOSIS NIGRA.

Nigra; anus ferrugineus; pedes albi, femoribus nigris; alæ nigro-fuscæ.

Sargus niger, *Wied. Zool. Mag.* iii. 52, 17; *Auss. Zweifl.* ii. 28, 2.

a. Brazil. From Mr. Saunders' collection.

Genus 29. SARGUS.

Corpus elongatum. Facies declivis. Antennæ 9-articulatæ; flagellum suborbiculare; arista setiformis, subterminalis. Scutellum inerme.

Musca, p., *Linn.; Scopoli; Fabr.; Gmel.; Geoffr.; Schr.*
Nemotelus, p., *Deg.*
Rhagio, p., *Schr.*
Sargus, p., *Fabr.; Meig.; Latr.; Fall.; Macq.; Zett.*

Mediastinal vein ending at about half the length of the wing. Subcostal ending before two-thirds of the length. Radial ending beyond two-thirds of the length. First branch of the cubital ending at hardly half the length from the radial to the second branch, which ends at some little distance from the tip of the wing. First, second, and fourth externo-medial veins complete; third not reaching the border. Subanal united to the anal at a short distance from the border. Discal veinlets forming two sides of the pentagonal discal areolet. Median veinlet distinct, very short. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and two externo-medial areolets complete. Two externo-medial areolets, axillary lobe, and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

Europe.

1. SARGUS CUPRARIUS.

Æneus; oculi fascia purpurea; abdomen cupreum, postice violaceum; pedes fusci, femoribus nigris; alæ nubecula fusca.

Musca cuprarius, *Linn.*
Sargus cuprarius, *Duméril, Cons. Gen. Ins.* pl. 50, f. 8. *Zett. Dipt. Scand.* i. 157, 1. *Loew, Isis*, 553, 1. Var. *robustus et gracilis.*

a—f. England. From Mr. Stephens' collection.

2. Sargus cæruleicollis.

Cæruleus; abdomen æneum; pedes fusci, genubus tarsisque flavis; alæ macula fusca.

Sargus cæruleicollis, *Megerle; Meig. Zweifl.* iii. 107, 2.
Sargus cuprarius, var.?

3. Sargus iridatus.

Æneus; antennæ maris *fuscæ*, fœminæ *fulvæ; oculi fascia purpurea; abdomen* maris *cupreum*, fœminæ *violaceum; pedes obscure fusci; alæ infuscatæ.*

Musca iridata, *Scopoli, Ent. Carn.* 340, 914.
Musca cuprarius, *Linn.* (In Linn. Coll.)
Sargus infuscatus, *Hoffm.; Meig. Dipt. Scand.* i. 158, 3.

a—f. England. From Mr. Stephens' collection.
g. France. Presented through M. Becker.

4. Sargus nubeculosus.

Æneus; antennæ maris *fuscæ*, fœminæ *fulvæ; oculi unicolores; abdomen* maris *cupreum*, fœminæ *violaceum; pedes fusci; alæ infuscatæ.*

Sargus nitidus, *Meig. Zweifl.* iii. 108, 4. *Macq. Hist. Nat. Dipt.* i. 261, 3. *Zett Dipt. Scand.* i. 159, 6. *Loew, Isis*, 1840, 553, 4.
Sargus nubeculosus, *Zett. Dipt. Scand.* i. 157, 2.

a—f. England. From Mr. Stephens' collection.

5. Sargus nigripes.

Mas. *Aureo viridis; antennæ pedesque nigra; abdomen cupreum, posterius concolor; alæ fusco-hyalinæ; halteres albidi; geniculis omnibus summis metatarsisque posticis, flavescentibus.*

Sargus nigripes, *Zett. Dipt. Scand.* i. 159, 5.
Sweden.

6. Sargus flavipes.

Aureo-viridis; caput apud antennæ albo bipunctatum; antennæ fuscæ; abdomen maris *cupreum,* fœminæ *violaceum; pedes flavi; femoribus nonnunquam fuscescentibus; alæ rufo-fuscæ.*

Sargus flavipes, *Meig. Fall. Dipt. Suec. Suppl.* 9, 43. *Meig. Zweifl.* vi. 311. *Zett. Dipt. Scand.* i. 158, 4.

a—c. England. From Mr. Stephens' collection.

7. Sargus bipunctatus.

Aureo-viridis; caput nigrum, albo bipunctatum; antennæ nigro-fuscæ; abdomen maris *cupreum,* fœminæ *chalybeum basi macula laterali sanguinea; pedes flavi; alæ rufo-fuscæ.*

Musca bipunctata, *Scopoli, Ent. Carn.* 341, 916.
Sargus Reaumuri, *Fabr. Guér. Icon. Règne Anim. Ins.* pl. 98, f. 9, *Texte,* 545.

a.—f. England. From Mr. Stephens' collection.

8 Sargus sulphureus.

Aureo-viridis; caput nigrum, punctis duabus albis; abdomen sulphureum; pedes flavi; alæ limpidæ; halteres flavi.

Sargus sulphureus, *Meig. Zweifl.* iii. 109, 7.
France?

North America.

9. Sargus debilis.

Sargus debilis, *Diptera Saundersiana,* Pt. 2, 83.

10. Sargus decorus.

Æneus; antennæ flavæ, supra nigro-fuscæ; abdomen viridi-aureum; pedes lutei; alæ fuscescente-flavæ.

Sargus decorus, *Say, Long's Exped. Append.* 376, 1. *Wied. Auss. Zweifl.* ii. 38, 19.

Pennsylvania. East Florida.

a—c. Trenton Falls, New York. Presented by E. Doubleday, Esq.

11. SARGUS PALLIPES.

Fusco-niger; antennæ, abdominis discus pedesque flava; tibiæ anticæ medio tarsique antici fusca; alæ subcinereæ, ad costam fuscæ.

Sargus pallipes, *Say; Wied. Auss. Zweifl.* ii. 41, 27.

Pennsylvania.

Mexico.

12. SARGUS NIGRIFEMORATUS.

Mas. *Violaceo-viridis; antennæ basi fulvæ; pedes flavi, femoribus posticis nigris basi flavidis, femoribus intermediis tibiisque posticis apice nigris; alæ subfuscescentes.*

Sargus nigrifemoratus, *Macq. Dipt. Exot. Suppl.* ii. 31, 10.

13. SARGUS? TRIVITTATUS.

Viridis, non metallicus; antennæ apice flavæ; thorax vittis tribus latissimis rufo-fuscis; abdominis segmenta fusco-fasciata.

Sargus trivittatus, *Say, Journ. Acad. Nat. Sci. Philad.* vi. 159.

West Indies.

14. SARGUS ALCHIDAS.

Sargus Alchidas, *Cat. of Diptera*, Pt. 3, 517.

15. SARGUS BAGOSAS.

Sargus Bagosas, *Cat. of Diptera*, Pt. 3, 518.

16. SARGUS LATERALIS.

Mas. *Cyaneo-viridis; caput, antennæ, thoracis latera et pedes fulva; vertex cyaneo-viridis; ocelli vertice inserti, approximati; pectus aureo-viride; abdomen aureo-cupreum, viridimicans; alæ fuscescentes.*

Sargus lateralis, *Macq. Hist. Nat. Dipt.* i. 262.
Cuba.

South America.

A. Thorax metallicus.
A. Abdomen metallicum.
A. Alæ limpidæ. - - - - Brasiliensis, *Wied.*
B. Alæ subflavescentes.
a. Femora tibiæque postica fusca. - notatus, *Wied.*
b. Femora tibiæque postica apice fusca. stamineus, *Fabr.*
c. Pedes nigro-cincti. - - - speciosus, *Macq.*
C. Alæ subfuscæ.
a. Abdomen petiolatum. - - - coarctatus, *Macq.*
b. Abdomen non petiolatum. - - thoracicus, *Macq.*
D. Alæ nigricantes. - - - - clavatus, *Walk.*
B. Abdomen non metallicum.
A. Abdomen nigrum, basi subtus fulvum. - jucundus, *Walk.*
B. Abdomen fuscum, flavo-fasciatum. - fasciatus, *Fabr.*
C. Abdomen flavum. - - - - - bicolor, *Wied.*
B. Thorax niger.
A. Thorax non vittatus. - - - - obscurus, *Wied.*
B. Thorax quadrivittatus. - - - petiolatus, *Macq.*
C. Thorax pallidus.
A. Tibiæ posticæ nigræ. - - - - testaceus, *Fabr.*
B. Tibiæ posticæ fuscæ. - - - - tæniatus, *Wied.*

17. Sargus Brasiliensis.

Æneus; antennæ fuscæ; abdomen chalybeum; pedes flavi; alæ limpidæ.

Sargus Brasiliensis, *Wied. Auss. Zweifl.* ii. 37, 18.
Brazil.

18. Sargus notatus.

Æneus; antennæ flavæ; abdomen purpurascens, segmento 2o flavido; pedes flavi, femoribus apice nigro-fuscis, femoribus tibiisque posticis fuscis; alæ subflavescentes.

Sargus notatus, *Wied. Auss. Zweifl.* ii. 34, 13.
Brazil.

19. SARGUS STAMINEUS.

Chalybeo-æneus; antennæ flavæ; abdomen purpurascente-nigrum, flavo fasciatum; pedes flavi, femoribus tibiis tarsisque posticis, apice fuscis; alæ subflavescentes.

Scæva staminea, *Fabr.*

20. SARGUS SPECIOSUS.

Fœm. *Violaceus; antennis testaceis, pedibus fulvis, femoribus posterioribus tibiisque posticis nigro cinctis; tibiis basi albidis; tarsis posticis nigricantibus, basi albis; alis flavescentibus.*

Sargus speciosus, *Macq. Dipt. Exot. Suppl.* i. 56, 9.

Merida, Yucatan.

21. SARGUS COARCTATUS.

Fœm. *Viridis, nitens; antennæ fulvæ; abdomen petiolatum, maculis albis; pedes antici fulvi; postici nigri, metatarsis albidis; alæ subfuscæ.*

Sargus coarctatus, *Macq. Dipt. Exot.* i. 1, 203, 6, pl. 25, f. 2.

Brazil, or Chili.

22. SARGUS THORACICUS.

Violaceus; thorax fulvus, lateribus pectoreque nigris, macula sub alas fulva, scutello aurato-viridi; abdominis segmentum 2um macula flavescente-hyalina; pedes antici flavescentes, femoribus apice tibiisque basi nigricantibus; posteriores nigricantes, tarsis basi albidis; alæ subfuscescentes.

Sargus thoracicus, *Macq. Hist. Nat. Dipt.* i. 261, 5.

South America.

23. Sargus clavatus.

Mas. *Aureo-viridis; proboscis testacea; antennæ ferrugineæ; thorax fulvo-pubescens; abdomen cupreum obclavatum, lateribus pubescentibus; pedes lutei, femoribus tibiisque posticis apice fuscis; alæ nigricantes.*

Male. Golden-green. Proboscis testaceous. Antennæ ferruginous. Thorax with tawny down. Abdomen cupreous, very slender, and almost cylindrical for nearly half the length from the base, widening much from thence to the tip. Legs tawny; hind femora and hind tibiæ brown towards the tips. Wings blackish. Halteres tawny, brown towards the tips. Length of the body 5 lines; of the wings 10 lines.

a. Parà. From Mr. Bates' collection.

24. Sargus jucundus.

Cyaneo-purpureus; caput subtus, antennæ et pectus fulva; abdomen nigrum, basi subtus fulvum; pedes flavi, femoribus posticis piceis; alæ cinereæ, fusco variæ.

Sargus jucundus, *Walk. Zool.* viii. *Append.* xcvi.

a. Parà. From Mr. Bates' collection.

25. Sargus fasciatus.

Æneus; antennæ flavescentes; scutellum apice flavescens; abdomen fuscum, flavo fasciatum; pedes fulvi; alæ subcinereæ.

Sargus fasciatus, *Fabr. Syst. Antl.* 259, 15. *Wied. Auss. Zweifl.* ii. 33, 10.

Brazil.

26. Sargus bicolor.

Viridi-aureus; antennæ, abdomen et pedes flava; alæ limpidæ.

Sargus bicolor, *Wied. Auss. Zweifl.* ii. 481, 28.

Porto Rico.

27. Sargus obscurus.

Niger; antennæ fuscæ, apice flavæ; scutellum margine flavo; abdomen macula basilari incisurisque albidis; pedes lutei; alæ flavidæ.

Sargus obscurus, *Weid. Auss. Zweifl.* ii. 35, 14.

Brazil.

28. Sargus petiolatus.

Fœm. *Niger; antennæ fulvæ; thoraæ flavo quadrivittatus; abdominis fasciæ fulvæ; pedes fulvi; femoribus posticis subtus nigris; alæ flavescentes ad costam fulvæ.*

Sargus petiolatus, *Macq. Dipt. Exot.* i. 1, 202, 4.

Brazil.

29. Sargus testaceus.

Coriaceus; abdomen fasciis fuscis; tibiæ posticæ nigræ; alæ flavescentes.

Sargus testaceus, *Fabr.*

Brazil. Guiana. Merida, Yucatan.

30. Sargus tæniatus.

Melleus; antennæ fulvæ; abdomen fuscum, incisuris utrinque dilatate flavidis; tibiæ posticæ fuscæ; alæ flavescentes.

Sargus tæniatus, *Wied. Auss. Zweifl.* ii. 37, 17.

Brazil.

Africa.

31. Sargus posticus.

Coriaceus; tibiæ tarsique postici basi nigra; alæ subcinereæ.

Sargus posticus, *Wied. Auss. Zweifl.* ii. 34, 12.

Cape.

a. Port Natal. From M. Gueinzius' collection.

32. SARGUS RUFICORNIS.

Mas. *Viridis; antennæ rufæ; abdomen cupreum; pedes flavi, tarsis apice nigris; alæ subflavescentes.*

Sargus ruficornis, *Macq. Dipt. Exot. Suppl.* i. 55, 8.

Caffraria.

Madagascar.

33. SARGUS LIMBATUS.

Fœm. *Violaceus; antennæ nigræ, basi virides; thorax testaceo bivittatus; abdomen albo limbatum; alæ nigro-fuscæ.*

Sargus limbatus, *Macq. Dipt. Exot.* i. 1, 201, 2.

34. SARGUS PALLIDUS.

Pallide flavus; antennæ fulvæ; thorax macula nigro-cyanea; abdomen maculis dorsalibus nigris; pedes ferruginei, tarsis posticis nigro-fuscis; alæ subflavæ. Long. 5¼ lin.

Sargus pallidus, *Macq. Dipt. Exot.* i. 1, 202, 3.

35. SARGUS FLAVIPENNIS.

Mas. *Ferrugineus; alæ flavæ.*

Sargus flavipennis, *Macq. Dipt. Exot.* i. 1, 200, 1.

Asia.

36. SARGUS GEMMIFER.

Sargus gemmifer, *Cat. of Diptera*, Pt. 3, 516.

37. SARGUS TENEBRIFER.

Sargus tenebrifer, *Cat. of Diptera*, Pt. 3, 517.

38. Sargus metallinus.

Viridi-æneus; antennæ luteæ; abdomen flavido-æneum; pedes flavi; alæ subflavescentes.

Sargus metallinus, *Fabr.*

East Indies. Java.

39. Sargus longipennis.

Obscure æneus; antennæ luteæ; scutellum apice ferrugineum; abdomen ferrugineo fasciatum; pedes lutei, postici tibiis nigro-fuscis tarsisque albis; alæ flavescentes, apice nigro-fuscæ.

Sargus longipennis, *Wied. Analecta Ent.* 31, 39; *Auss. Zweifl.* ii. 34, 11.

Java.

40. Sargus aurifer.

Mas et Fœm. *Ferrugineo-fulvus, subtus testaceus; thoracis vittis tribus nigricantibus non bene determinatis; abdomen fasciis abbreviatis nigricantibus; tibiæ posticæ* maris *fusco fasciatæ; alæ luteæ apice fuscæ.*

Tawny, testaceous beneath. Disk of the thorax slightly ferruginous, with three short indistinct blackish stripes. Abdomen with short black dorsal bands, ferruginous above in the male. Hind tibiæ of the male with a brown band. Wings luteous, with brown tips. Length of the body 7—7½ lines; of the wings 15—16 lines.

This species differs much from *S. cuprarius* in the structure of the wing-veins. The third submarginal vein is more complete, the subanal joins the anal nearer the border, the discal areolet is nearer the middle of the wing and is distinctly hexagonal, the median veinlet is longer, and the veinlet in front of it is much more distinct.

a. Hindostan. From Mr. Saunders' collection.
b. North China. From Mr. Cuming's collection.

Country unknown.

40. SARGUS ANALIS.

Fœm. *Violaceus; antennæ cinereo-fuscæ, basi nigræ; thoracis latera, pectus, abdomen apice et subtus pedesque anteriores fulva; pedes postici nigri; alæ subhyalinæ.*

Sargus analis, *Macq. Dipt. Exot.* i. 1, 204, 7.

Genus 30. CHRYSOMYIA.

Corpus vix elongatum. Epistoma declive. Antennæ 7-articulatæ; flagellum ellipticum; arista setiformis, terminalis. Scutellum inerme.

Nemotelus, p., *Deg.*
Musca, p., *Fabr.; Schr.*
Rhagio, p., *Schr.*
Sargus, p., *Fabr.; Meig.; Fall.; Curt.*
Chrysomyia, *Macq. Dipt. Nord.* i. 262; *Zett.*
Chloromyia, *Duncan.*

Mediastinal vein ending at hardly beyond half the length of the wing. Subcostal ending at before two-thirds of the length. Radial ending at beyond two-thirds of the length. First branch of the cubital short, ending at a little beyond half the length between the radial and the second branch, which ends at some distance in front of the tip of the wing. First, second, and fourth externo-medial veins complete; third not reaching the border. Subanal united to the anal near the border. Discal veinlets forming two sides of the hexagonal discal areolet. Median veinlet distinct but very short. Humeral, subcostal, mediastinal, radial, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and two externo-medial areolets complete. Two externo-medial areolets, axillary lobe and subaxillary lobe incomplete. Subapical areolet occupying the tip of the wing.

1. CHRYSOMYIA FORMOSA.

Aureo-viridis fulvo-hirta; barba pallida; antennæ nigro-fuscæ; oculi fascia purpurea; abdomen maris *aureum*, fœminæ *violaceum; pedes fusci; alæ ferrugineæ.*

Musca formosa, *Schrank.*
Chrysomyia formosa, *Zett. Dipt. Scand.* i. 154, 1; viii. 2962, 1. *Loew, Isis*, 1840, 5.

a—f. England. From Mr. Stephens' collection.

Var. Fœm. *Viridis; thorax violaceo micans; abdomen maculis dorsalibus cupreis, violaceo marginatis; genua et tarsi flava.*

Chrysomyia speciosa, *Macq. Hist. Nat. Dipt.* i. 263, 2.
Sargus speciosus, *Meig. Zweifl.* vii. 104, 12.

Bologna.

2. CHRYSOMYIA AZUREUS.

Cyanea, aureo-tannentosa; barba pallida; alæ pallide fuscæ, fusco venosæ.

Sargus azureus, *Loew, Isis*, 1840, 554, 7. *Zeller, Isis*, 1842, 826.

Posen.

3. CHRYSOMYIA MELAMPOGON.

Cyanea; barba nigra; abdomen orichalceum; alæ nigricantes fusco venosæ.

Sargus melampogon, *Zeller, Isis*, 1842, 825, 8.

Hungary.

4. CHRYSOMYIA POLITA.

Aureo-viridis; oculi unicolores; antennæ fuscæ; abdomen cupreo-viride, fœminæ *cyanescens; pedes flavi; tibiis posterioribus nonnunquam femoribusque fuscis; alæ limpidæ.*

Musca politus, *Linn.*
Chrysomyia polita, *Zett. Dipt. Scand.* i. 155, 2; viii. 2962, 2.
Sargus polita, *Loew, Isis*, 1840, 554, 8.

a—f. England. From Mr. Stephens' collection.

5. CHRYSOMYIA PALLIPES.

Viridis; antennæ fuscæ, basi fulvæ; thoracis latera flavo vittata; pedes fulvi, femoribus posterioribus nigris, tibiis posticis apice fuscis; alæ limpidæ.

Sargus politus, *Var., Fall.*
Sargus pallipes, *Meig. Zweifl.* vi. 311, 31.

Chrysomyia pallipes, *Zett. Dipt. Scand.* i. 155, 3 ; viii. 2962, 3.
a—f. England. From Mr. Stephens' collection.

6. CHRYSOMYIA FLAVICORNIS.

Aureo-viridis ; antennæ flavæ ; abdomen auratum ; pedes flavi, tibiis posticis apice femoribusque posticis fuscis ; alæ limpidæ.

Sargus flavicornis, *Meig.*
a—f. England. From Mr. Stephens' collection.

7. CHRYSOMYIA CYANEIVENTRIS.

Aureo-viridis ; fœm. frons violacea ; antennæ, halteres et pedes flava ; abdomen violaceum ; femora postica late nigro cincta ; alæ subinfuscatæ.

Chrysomyia cyaneiventris, *Zett. Dipt. Scand.* i. 156, 4 ; viii. 2962, 4.
Ireland. Sweden.

North America.

8. CHRYSOMYIA VIRIDIS.

Æneus aut chalybeus ; antennæ nigræ ; abdomen æneseens ; tarsi nigri ; alæ subcinereæ.

Sargus viridis, *Say.*

9. CHRYSOMYIA XANTHOPUS.

Æneus ; antennæ flavæ ; abdomen viridi-aureum ; pedes flavi ; alæ hyalinæ.

Sargus xanthopus, *Wied. Auss. Zweifl.* ii. 40, 23.
Pennsylvania.

South America.

10. CHRYSOMYIA MACULA.

Æneus ; antennæ fulvæ ; abdomen chalybeum, macula testacea ; pedes flavi ; alæ hyalinæ.

Sargus macula, *Fabr. Syst. Antl.* 258, 12. *Wied. Auss. Zweifl.* ii. 40, 24.
South America.

Asia.

11. CHRYSOMYIA SAPPHIRINA.

Chrysomia sapphirina, *Cat. of Diptera*, Pt. 3, 519.

12. CHRYSOMYIA FLAVIVENTRIS.

Æneus; antennæ fulvæ; abdomen melleum apice nigrum; pedes fulvi, femoribus tibiisque posticis medio fuscis; alæ limpidæ.

Sargus flaviventris, *Wied. Analecta Ent.* 31, 41; *Auss. Zweifl.* ii. 40, 25.

East Indies.

13. CHRYSOMYIA AFFINIS.

Æneus; antennæ fulvæ; abdomen nigellum, ventre flavo; pedes fulvi; alæ limpidæ.

Sargus affinis, *Wied. Analecta Ent.* 31, 42; *Auss. Zweifl.* ii. 41, 26.
Sargus flaviventris, Mas?

East Indies.

Genus 31. PACHYGASTER.

Corpus breve. Facies declivis. Antennæ 7-articulatæ, clavatæ; flagellum globosum; arista setiformis, subterminalis. Scutellum inerme.

Pachygaster, *Meig. Klass.* i. 146; *Macq.*; *Curt.*; *Duf.*; *Zett.*
Vappo, *Latr.*; *Fabr.*
Nemotelus, p., *Panz.*
Sargus, p., *Fall.*

Mediastinal vein at a little before half the length of the wing. Subcostal and radial ending before two-thirds of the length. First branch of the cubital very short, ending at beyond half the distance between the radial and the second branch which ends at far in front of the tip of the wing. Three complete externo-medial veins. Subanal vein united to the anal far from the border. Discal veinlets forming two sides of the pentagonal discal areolet. Median veinlet distinct, but extremely short. Humeral, subcostal, mediastinal, radial?, first cubital, second cubital, præbrachial, pobrachial, anal, axillary, subapical, discal, and three externo-medial veins complete. Axillary lobe and subaxillary lobe incomplete. Subapical areolet occupying the front of the tip of the wing.

1. PACHYGASTER ATER.

Niger; antennæ maris *fuscescentes*, fœminæ *fulvæ; pedes flavi, femoribus fuscis; alæ limpidæ, basi fuscæ.*

Vappo ater, *Fabr.*

Pachygaster ater, *Meig. Zweifl.* vii. 103. *Zett. Dipt. Scand.* i. 152, 1. *Zeller, Isis*, 1840, 532, 7.

a—f. England. From Mr. Stephens' collection.

2. PACHYGASTER TARSALIS.

Subnitida, nigra; antennæ fuscæ, seta albida; tibiæ anticæ totæ, posteriores apice tarsique omnes flava; alæ hyalinæ, macula stigmaticali pallida, ad basim dimidiatim fumatæ; halteres nigri.

Pachygaster tarsalis, *Zett. Dipt. Scand.* i. 152, 2.

Sweden.

3. PACHYGASTER LEACHII.

Niger; antennæ fulvæ; pedes flavi, tibiis posticis apice fusco maculatis; alæ albæ.

Pachygaster Leachii, *Curt. Brit. Ent.* i. 42.

Pachygaster pallidipennis, *Macq. Hist. Nat. Dipt.* i. 265, 2. *Meig. Zweifl.* vii. 104, 2. *Zett. Dipt. Scand.* i. 153, 3.

Europe.

a—f. England. From Mr. Stephens' collection.

4. PACHYGASTER MEROMELAS.

Ater; antennæ rufo-fuscæ; pedes pallidi, femoribus nigris; alæ immaculatæ, venis a basi ad medium atris.

Pachygaster meromelas, *Léon Dufour, Ann. Sci. Nat.* 2me Sér. xvi. 264—266.

France.

5. PACHYGASTER MINUTISSIMUS.

Fœm. *Glaber, nitidus, niger; antennæ fuscæ; tibiæ tarsique albæ; alæ hyalinæ, immaculatæ, vena subcostali gemina; halteres nivei.*

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Pachygaster minutissimus, *Zett. Dipt. Scand.* i. 153, 4; xi. 42, 61. Sweden.

Asia.

6. PACHYGASTER RUFITARSIS.

Mas. *Cyaneo-niger; tibiæ apice tarsique fulva; alæ hyalinæ ad costam subrufescentes.*

Pachygaster rufitarsis, *Macq. Dipt. Exot. Suppl.* i. 57, 1, pl. 6, f. 3, Pondicherry.

Genus 32. CHAUNA.

Proboscis brevis, palpis subprominulis. Antennæ triarticulatæ, articulis 2 basalibus brevissimis, terminali lato furcato, ramo superiori setam apicalem stylumque antapicalem crassiusculum gerente. Scutellum quadrispinosum. Abdomen breve, inflatum.

Chauna, *Loew, Ent. Zeit. Stett.* viii. 370, pl. 1, f. 11—15.

1. CHAUNA VARIABILIS.

Chauna variabilis, *Loew, Ent. Zeit. Stett.* viii. 370, pl. 1, f. 11. Cuba.

Fam. 2. XYLOPHAGIDÆ.

Caput sat magnum. Antennæ non subito attenuatæ. Vena cubitalis sæpissime furcata; vena costalis circum marginem posticum attenuata; areola anālis marginem posticum fere attingens; alulæ scutellares obsoletæ. Halteres manifesti.

Sicarii, *Latr.*; *Macq.*
Stratiomydæ, p., *Lam.*
Xylophagi, p., *Meig.*; *Latr.*; *Fall.*; *Zett.*
Xylophagii, p., *Macq.*
Xylophagidæ, p., *Steph.*
Xylophagidæ, p. et Xylophaga, p., *Burm.*
Xylophagites, p., *Newm.*
Cœnomyidæ et Beridæ, p., *Westw.*
Xylophagei, p., *Agassiz.*
Stratiomiinæ, p. et Cœnomydæ, p., *Rondani.*

The more equal distribution of the veins in the wings is one of the characters which distinguish this family from the preceding, the discal areolet is nearer the middle of the wing, and the externo-medial veins are more strongly marked than in most of the Stratiomidæ. It seems to be also related to Thereva and to the Asilidæ, and by means of Xylophagus and Rachicerus to the Tipulidæ, and through Cænomyia to the Tabanidæ.

Scutellum non spinosum.
  Antennæ 34-aut 35-articulatæ. - - - 1. Rachicerus.
  Antennæ 4—10-articulatæ.
    Frons mediocris.
      Vena cubitalis furcata.
        Antennarum articulus 1us longus.
          Abdomen non compressum.
            Flagellum non compressum.
  Antennæ 10-articulatæ. - - - - 2. Xylophagus.
  Antennæ 4-articulatæ. - - - - - 4. Dinassus.
  Antennæ 5-articulatæ. - - - 12. Pachystomus.
            Flagellum apice compressum. - 3. Agapophytus.
          Abdomen compressum. - - - - 7. Phycus.
        Antennarum articulus 1us brevis.
          Antennæ non setiformes. - - - 5. Subula.
          Antennæ setiformes. - - - - 6. Dialysis.
      Vena cubitalis non furcata.
        Antennarum articulus 1us longus. - 8. Inopus.
        Antennarum articulus brevis. - - - 9. Nonacris.
    Frons latissima. - - - - - 10. Metoponia.
Scutellum bispinosum. - - - - - 11. Cænomyia.

Genus 1. RACHICERUS.

Mas. Corpus gracile, sublineare, cylindricum. Caput transversum; vertex angustus. Oculi magni, apud antennas incisi. Ocelli approximati. Proboscis non exserta. Palpi breves. Antennæ 34-aut 35-articulatæ, serratæ, attenuatæ, corporis dimidio multo longiores; articuli transversi, cyathiformes, subpetiolati. Thorax oblongo-subquadratus. Abdomen pubescens, vix attenuatum, thorace duplo longius. Pedes sat graciles, non elongati; calcares brevissimi. Alæ angustæ. Halteres breves.

Rachicerus, *Haliday, Cat. of Diptera*, Pt. 1, 124.

Male. Body slender, nearly linear, cylindrical. Head transverse, nearly as broad as the thorax; vertex narrow. Eyes large, with small facets, deeply notched, and including a smooth space on each side by the base of the antennæ. Ocelli approximate. Proboscis not prominent. Palpi short. Antennæ with 34 or 35 joints, tapering slightly, much more than half the length of the body, deeply serrated on each side; joints transverse, very short, cyathiform, petiolated. Thorax elongate-quadrate. Abdomen pubescent, with eight segments, hardly tapering from the base to the tip, about twice the length of the thorax. Legs rather slender, of moderate length; hinder tibiæ with very minute spurs; ungues and onychia very small. Wings narrow. Mediastinal vein ending at much beyond half the length of the wing. Subcostal ending at a little beyond two-thirds of the length. Radial ending at very little beyond the subcostal. Fore branch of the cubital nearly straight, ending at about half the distance between the radial and the hind branch, which ends at hardly behind the tip of the wing. Four externo-medial veins, the third and the fourth united near the border. Subanal united to the anal on the border. Median veinlet short. Discal areolet pentagonal, about thrice longer than broad; the one basal and the two apical sides short, the intermediate sides long, parallel, slightly curved. Halteres short.

1. Rachicerus fulvicollis.

Mas. *Niger; thorax fulvus; alæ sublimpidæ; halteres et pedes testacei.*

Rachicerus fulvicollis, *Haliday, Cat. of Diptera*, Pt. 1, 124.

Male. Black. Eyes red, each enclosing a black compartment. Thorax tawny. Wings nearly limpid; veins blackish. Halteres and legs testaceous. Length of the body 2¾ lines; of the wings 5 lines.

Genus 2. XYLOPHAGUS.

Proboscis brevis. Palpi sat longi. Antennæ 10-articulatæ, sublineares, capite paullo longiores; articulus 1us sat longus; 2us et sequentes breves. Abdomen fœminæ elongatum, attenuatum. Pedes longi, graciles.

Xylophagus, *Meig.; Fabr.; Latr.; Macq.; Zett.; Westw.*
Asilus, p., *Sahlberg.*
Empis, p., *Panz.*

Mediastinal vein ending at much beyond half the length of the wing. Subcostal ending a little before the radial, which ends at beyond three-fourths of the length. Fore branch of the cubital curved, moderately long, ending at half the length between the radial and the hind branch, which ends at hardly in front of the tip of the wing. Four complete externo-medial veins. Subanal joining the anal on the border of the wing. Median veinlet short, distinct. Discal areolet hexagonal, more than thrice longer than broad; its sides parallel.

Europe.

1. Xylophagus ater.

Niger; thorax fœminæ *cinereo trivittatus; pedes fulvi, femoribus apice tibiis tarsisque posticis fuscis; alæ hyalinæ, fusco fasciatæ.*

Xylophagus ater, *Fabr. Zett. Dipt. Scand.* i. 128, 1; viii. 2747, 1. *Roser, Verz. Wurt. Dipt.* 6.

2. Xylophagus cinctus.

Niger; thorax fœminæ *cinereo trivittatus; abdomen rufo cinctum; pedes fulvi, femoribus apice tibiis tarsisque posticis fuscis; alæ hyalinæ, fusco fasciatæ.*

Nemotelus cinctus, *Deg. Ins.* vi. 75, 6, pl. 9, f. 19—21.
Xylophagus cinctus, *Fabr. Syst. Antl.* 65, 2. *Latr. Gen. Crust.* iv. 272. *Meig. Zweifl.* ii. 12, 2. *Macq. Hist. Nat. Dipt.* i. 230, 2. *Zett. Dipt. Scand.* i. 158, 2.
Asilus ——— ? *Schell. Genr. Monch.* pl. 30, f. 2.
Xylophagus ater var., *Fall. Dipt. Suec.* 13, 1.
Xylophagus ater, var.?

3. Xylophagus compeditus.

Niger; thorax cinereo trivittatus; pedes flavi, femoribus posticis apice supra fuscis, tibiis posticis fusco annulatis; alæ hyalinæ strigis flavescentibus, venis transversis infuscatis.

Xylophagus compeditus, *Weid.; Meig. Zweifl.* ii, 13, 3.
Austria.

North America.

4. XYLOPHAGUS AMERICANUS.

Flavus; antennæ nigræ; thorace nigro vittatus et maculatus; abdomen rufum, incisuris flavis; pedes flavi, femoribus posticis apice tibiisque rufescentibus, tarsis anticis basi nigro-fuscis; alæ limpidæ.

Xylophagus americanus, *Wied.*

United States.

5. XYLOPHAGUS TRIANGULARIS.

Niger; abdomen maculis trigonis schistaceis; pedes lutei; alæ hyalinæ, apice et apud venas transversas fuscescentes.

Xylophagus triangularis, *Say.*; *Wied.*

Missouri.

6. XYLOPHAGUS PERSEQUUS.

Xylophagus persequus, *Diptera Saundersiana*, Pt. 1, 1.

North America.

South America.

7. XYLOPHAGUS? VETUSTUS.

Fœm. *Niger; caput albo-tomentosum; antennæ piceæ; thorax albo trivittatus; pectus cano-tomentosum; abdomen canescens; pedes picei; alæ subcinereæ, venis nigris.*

Fem. Black. Head mostly covered with shining white tomentum. Antennæ piceous, not longer than the head. Thorax with three white stripes. Pectus with hoary tomentum. Abdomen slightly covered with hoary tomentum. Legs piceous. Wings grayish; veins black; costal vein ceasing a little in front of the tip of the wing; first branch of the cubital vein undulating, joining the tip of the costal; third submarginal vein joining the fourth on the border; subanal joining the anal at some little distance from the border. Halteres black, with testaceous knobs. Length of the body 2½ lines; of the wings 4½ lines.

a. Parà. From Mr. Bates' collection.

Asia.

8. XYLOPHAGUS BRUNNEUS.

Saturate fuscus; thorax vittis indistinctis albidis; abdomen incisuris flavis; femora flava.

Xylophagus brunneus, *Wied. Analecta Ent.* 19, 1; *Auss. Zweifl.* i. 85, 3.

East Indies.

Genus 3. AGAPOPHYTUS.

Antennarum articulus 1us longissimus; 2us brevissimus; flagellum articulo 1o longior, apice compressum. *Fam.* Abdomen apice spinis armatum.

Agapophytus, *Guér. Voy. de la Coquille*, i. 289.
Cyclotelus, *Diptera Saundersiana*, Pt. 1, 4,

Mediastinal vein ending at about half the length of the wing. Subcostal ending at about two-thirds of the length. Radial ending at five-sixths of the length. First branch of the cubital curved, moderately long; second ending at behind the tip of the wing. Four externo-medial veins; the third and fourth united by the border of the wing. Subanal vein and anal vein united at their tips. Discal areolet elongated, indistinctly hexagonal.

1. AGAPOPHYTUS NIGROFLAMMA.

Cyclotelus nigroflamma, *Diptera Saundersiana*, Pt. 1, 4.

South America.

2. AGAPOPHYTUS PRUINOSUS.

Cyclotelus pruinosus, *Diptera Saundersiana*, Pt. 1, 5, pl. 1, f. 4.

South America.

3. AGAPOPHYTUS SOCIUS.

Cyclotelus socius, *Diptera Saundersiana*, Pt. 1, 6.
Agapophytus Australasiæ? *Guér. Voy. de la Coquille*, i. 290. *Atlas, Ins.* pl. 20, f. 11.

a. South America. From Mr. Saunders' collection.

4. AGAPOPHYTUS LÆTUS.

Cyclotelus lætus, *Diptera Saundersiana*, Pt. 1, 6.
South America.

Genus 4. DIMASSUS.

Antennarum articulus 1us longissimus; 2us brevissimus; 3us fusiformis, 1i dimidio paullo longior; 4us minimus, conicus, apice setiformis, 2o non longior.

Dimassus, *Diptera Saundersiana*, Pt. 1, 2.

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at a little beyond the mediastinal. Radial ending at a little before five-sixths of the length. First branch of the cubital undulating; second ending at behind the tip of the wing. Four separate externo-medial veins. Subanal vein united to the anal by the border. Discal areolet elongated, indistinctly hexagonal.

1. DIMASSUS TERMINALIS.

Dimassus terminalis, *Diptera Saundersiana*, Pt. 1, 3, pl. 1, f. 6.
Xylophagus terminalis, *Cat. of Diptera*, Pt. 1, 129.
New South Wales.

2. DIMASSUS LATISTRIA.

Dimassus latistria, *Diptera Saundersiana*, Pt. 1, 2.
Xylophagus latistria, *Cat. of Diptera*, Pt. 1, 130.
———?

3. DIMASSUS DIVISUS.

Dimassus divisus, *Diptera Saundersiana*, Pt. 1, 4.
———?

Genus 5. SUBULA.

Palpi biarticulati; articulus 2us longus, cylindricus. Antennæ subfiliformes; articuli 1us et 2us æquales; flagellum longium, subcylindricum. Alarum areola analis clausa, retracta.

Subula Megerle, *Meig. Zweifl.* iii. 15 ; *Macq.*
Nemotelus, p., *Degeer.*
Xylophagus, p., *Meig.* ; *Fabr.* ; *Latr.* ; *Zett.*

Mediastinal vein ending at very much beyond half the length of the wing. Subcostal ending near the radial, which extends to beyond three-fourths of the length. First branch of the cubital curved, moderately long, ending at half the length between the radial and the second branch, which ends at a little in front of the tip of the wing. Four complete externo-medial veins. Subanal vein joining the anal close to the border of the wing. Median veinlet distinct, but very short. Discal areolet hexagonal, about thrice longer than broad; its sides nearly parallel.

Europe.

1. SUBULA MACULATA.

Nigra; antennæ ferrugineæ, basi fuscæ ; thorax flavo vittatus et quadrimaculatus ; abdomen basi flavo bimaculatum, segmentis flavo cinctis ; pedes flavi, nigro cinctis ; alæ hyalinæ.

Xylophagus maculatus, *Fabr. Syst. Antl.* 65, 3. *Fall. Dipt. Suec.* 13, 2. *Latr. Gen. Crust.* iv. 272 ; *Cons. Gén.* 442. *Meig. Zweifl.* ii. 13, 4, pl. 12, f. 15. *Steph. Ill. Brit. Ent. Haust.* pl. 46, f. 3. *Zett. Dipt. Scand.* i. 128, 3.
Subula maculata, *Macq. Hist. Nat. Dipt.* i. 230, 1.

a. England. From Mr. Stephens' collection.

2. SUBULA VARIA.

Nigra ; antennæ fuscæ, subtus flavo fasciatæ, capite longiores ; scutellum flavum, lateribus nigris ; abdomen incisuris flavis ; pedes flavi ; alæ limpidæ.

Xylophagus varius, *Megerle ; Meig. Zweifl.* ii. 14, 5 ; vi. 319. *Roser, Ann. Nat. Hist. Soc. Tubing.* ii. 1828. *Ferussac, Bull. Sci. Nat.* 1829.
Subula varia, *Macq. Hist. Nat. Dipt.* i. 230, 2.

a, *b*. England.

3. SUBULA MARGINATA.

Nigra; antennæ nigro-fuscæ, capitis longitudine, articulo 3o basi subtus flavo; thorax lateribus flavo lineatis, scutello flavo; abdomen incisuris pallidis; pedes flavi, coxis nigris, femoribus posticis incrassatis apice nigris; alæ limpidæ.

Xylophagus marginatus, *Megerle; Meig. Zweifl.* ii. 15, 6. *Wesm. Acad. Sci. Brux. Ann. Soc. Ent. Fr.* vi. *Bull. Ent.* 89.
Subula marginata, *Macq. Hist. Nat. Dipt.* i. 231, 3.

France. Austria.

SUBULA CITRIPES.

Nigra, albido sericeo pubescens; os, palpi, linea lateralis thoracis, thoracis, scutellum, halteres, pedesque cum coxis flavo-citrina; antennæ atræ, capite longiores; abdomen penitus nigrum, genitalibus testaceis; tarsi apice nigrescentes; alæ immaculatæ.

Subula citripes, *Leon Duf. Ann. Soc. Ent. Fr.* 2me *Sér.* iv. *Bull. Ent.* xlvii. *Ann. Sci. Nat.* 3me *Sér.* (1847), vii. 14, pl. 17, f. 12—18.

France.

North America.

4. SUBULA FASCIATA.

Xylophagus fasciatus, *Barnston, Cat. of Diptera*, Pt. 1, 128.

5. SUBULA REFLECTENS.

Xylophagus reflectens, *Cat. of Diptera*, Pt. 1, 129.

South America.

6. SUBULA VITTATA.

Mas. *Atra; caput et thorax flavo maculata; pedes nigri; alæ fuscæ.*

Xylophagus vittatus, *Walk. Linn. Trans.* xvii. 338, 20.

Caput antice et postice flavo maculatum, subtus albo pubescens; oculi rufi; thorax flavo quadrivittatus, subtus albo pubescens; scutellum flavum; abdomen pubescens; pedes pubescentes, tarsis subtus rufo pilosis; alæ fuscæ, pubescentes, basi nigro fuscæ venis nigro fuscis; halteres flavi, apice pallidiores.

St. Paul, Brazil.

Africa.

7. SUBULA NIGRITIBIALIS.

Atra ; abdominis incisuræ, fœminæque discus pallida ; pedes flavi, tibiis tarsisque posticis nigris.

Subula nigritibialis, *Macq. Hist. Nat. des Canaries de Webb et Berthelot*, 102, 12; *Dipt. Exot.* i. 1, 171, 1.

Canary Isles.

Genus 6. DIALYSIS.

Dialysis, *Diptera Saundersiana*, Pt. 1, 4.

Antennarum articuli 1us et 2us breves ; 2us 1o paullo brevior 3us conicus, 2o non longior; seta terminalis pubescens, articulo 1o plus triplo longior.

1. DIALYSIS DISSIMILIS.

Dialysis dissimilis, *Diptera Saundersiana*, Pt. 1, 4.
Xylophagus Americanus? *Cat. of Diptera*, Pt. 1, 128.

North America.

Genus 7. PHYCUS.

Phycus, *Diptera Saundersiana*, Pt. 1, 2.

Antennarum articulus 1us longissimus, 2o bis quadruplo longior; 3us fusiformis, 2i dimidio non brevior; 4us conicus, minimus. Abdomen compressum.

1. PHYCUS CANESCENS.

Phycus canescens, *Diptera Saundersiana*, Pt. 1, 2, pl. 1, f. 5.
Xylophagus canescens, *Walk. Cat. Dipt. B. M.*, Pt. 1, 129.

North Bengal.

Mediastinal vein ending at a little before half the length of the wing. Subcostal ending at before two-thirds of the length. Radial ending at about three-quarters of the length. First branch of the

cubital undulating, ending at a little in front of the tip of the wing; second branch ending at much behind the tip. Four externo-medial veins, the third and fourth united before the border. Subanal vein united to the anal by the border. Discal areolet elongated, hexagonal.

Genus 8. INOPUS.

Inopus, *Diptera Saundersiana*, Pt. 1, 2.

Antennarum articulus 1us longus; 2us brevissimus; flagellum lanceolatum, articulo 1o longior. Alarum vena cubitalis non furcata.

1. INOPUS DISPECTUS.

Inopus dispectus, *Diptera Saundersiana*, Pt. 1, 2, pl. 1, f. 7.

Mediastinal vein ending at about half the length of the wing. Subcostal ending at some distance beyond. Radial ending at a little beyond the subcostal, cubital simple, ending at a little in front of the tip of the wing. Three externo-medial veins. Subanal united to the anal near the border. Discal areolet moderately long, indistinctly hexagonal.

Genus 9. NONACRIS.

Nonacris, *Diptera Saundersiana*, Pt. 1, 7.

Antennæ 7-articulatæ; articulus 2us 1o multo longior; 3us et sequentes breves. Alarum vena cubitalis non furcata.

1. NONACRIS TRANSEQUA.

Nonacris transequa, *Diptera Saundersiana*, Pt. 1, 7.

South America.

Genus 10. METOPONIA.

Fœm. Frons latissima. Oculi parvi. Ocelli verticales. Palpi breves, graciles. Antennæ 10-articulatæ, inferius insertæ; articulus 1us 2o duplo longior; flagellum fusiforme, articulo 1o paullo longior. Scutellum muticum. Tibiæ non calcaratæ.

Metoponia, *Macq. Dipt. Exot. Suppl.* ii.

1. METOPONIA RUBRICEPS.

Fœm. *Nigra; caput rubrum; alæ hyalinæ, basi et ad costam subfuscæ; femora apice tibiæque basi fulva.*

Metoponia rubriceps, *Macq. Dipt. Exot. Suppl.* ii.

New Holland. Tasmania.

Genus 11. CŒNOMYIA.

Corpus crassum. Caput parvum. Oculi subpubescentes. Palpi elongati, cylindrici, asundentes. Antennæ 10-articulatæ, capite non longiores; articulus 1us elongatus, apice paullo crassior; flagellum conicum. Scutellum bispinosum. Tibiæ calcaratæ.

Cœnomyia, *Latr. Gen. Crust.* iv. 281. *Meig.; Lam.; Macq.; Blanch.; Gimmerthal.*
Tabanus, p., *Fabr.; Gmel.*
Stratiomys, p., *Fabr.; Schr.; Panz.*
Sicus, *Fabr.; Meig.; Kl.; Fall.*

Mediastinal vein ending at before two-thirds of the length of the wing. Subcostal ending at a little beyond three-fourths of the length. Radial ending at four-fifths of the length. Fore branch of the cubital curved, ending at half the distance between the radial and the hind branch, which ends behind the tip of the wing. Four complete externo-medial veins. Subanal vein almost joining the anal on the border. Median veinlet short. Discal areolet heptagonal, nearly thrice longer than broad.

1. CŒNOMYIA FERRUGINEA.

Ferruginea; abdomen maculis lateralibus albidis, alæ flavicantes.

Sicus ferrugineus, *Fabr. Dum. Cons. Gén. Ins.* pl. 48, f. 3. *Zett. Dipt. Scand.* i. 130, 1.

a. Interlacken, Switzerland. Presented by F. Walker, Esq.

2. CŒNOMYIA PALLIDA.

Ferruginea; thorax trivittatus; abdomen pallidum; alæ hyalinæ, venis flavo limbatis.

Cœnomyia pallida, *Say.*

United States. Canada.

Genus 12. PACHYSTOMUS.

Proboscis crassa. Palpi latiusculi, subcompressi, proboscidis longitudine. Antennæ articulis quinque distinctis, 1o sequentibus longiore et crassiore. Scutellum muticum.

Pachystomus, *Latr. Gen. Crust.* iv. 287. *Encycl. Méth.* viii. 623. *Macq.*
Rhagio, p., *Panz.*

1. PACHYSTOMUS SYRPHOIDIS.

Niger; thorax cinereo vittatus; abdomen fusco-rufum, basi apiceque nigrum; pedes fulvi; alæ fusco semifasciatæ.

Pachystomus syrphoides, *Latr. Gen. Crust.* iv. 286. *Encycl. Méth.* viii. 623. *Macq. Hist. Nat. Dipt.* i. 226, 1. *Meig. Zweifl.* vi. 319; vii. 57, 1.
Empis subulata, *Panz. Faun. Ins. Germ.* 54, 23. (Mas.)
Rhagio syrphoides, *Panz. Faun. Ins. Germ.* 77, 19. (Fœm.)

France. Germany.

ADDENDA.

STRATIOMYS GONIPHORA.

Nigra; caput flavo-album nigro bifasciatum; antennæ nigræ; thorax aureo-hirtus; scutellum margine postico spinisque flavis; abdomen maculis lateralibus trigonis apiceque flavis, subtus viride; pedes flavescentes, femoribus subtus nigro lineatis; alæ hyalinæ.

Stratiomys goniphora, *Say, Journ. Acad. Nat. Sci. Philad.* vi. 161.

Mexico.

STRATIOMYS TRIVITTATA.

Viridis; frons et vertex fuscescentes; antennæ rufo-fuscæ, basi pallidiores; thorax nigro trivittatus; abdomen nigro univittatum.

Stratiomys trivittata, *Say, Journ. Acad. Nat. Sci. Philad.* vi. 160.

Mexico.

NEMOTELUS POLYPOSUS.

Purpureo-nigra, nitens; alæ et halteres alba; pedes flavi, femoribus nigris apice flavis, tibiis posticis apud medium nigris.

Nemotelus polyposus, *Say, Journ. Acad. Nat. Sci. Philad.* vi. 160.

Mexico.

SARGUS MINIMUS.

Aureo-viridis; oculi non lineati; antennæ nigræ; abdomen maris *cupreum*, fœminæ *violaceum; pedes obscure fusci; alæ fusco-hyalinæ, nubecula nulla; halteres pallidi.*

Sargus nitidus, *Zett. Dipt. Scand.* i. 159, 6.
Sargus minimus, *Zett. Dipt. Scand.* viii. 2965, 6, 7.

Sweden.

Fam. 3. TABANIDÆ.

Caput magnum. Alæ completæ[2]; vena cubitalis furcata, costalis marginem posticum attingens; areola analis usque ad marginem producta. Alulæ scutellares elevatæ.

Tabanidæ, *Leach; Curt.; Westw.*
Tabanii, *Latr.; Fall.; Meig.; Macq.; Zett.; Agassiz.*
Anthracina, p., *Rafinesque.*
Sclerostoma, p., *Dumeril.*
Tabanica, *Burm.*
Tabanites, *Newm.*
Tabaninæ, *Rondani.*
Tabanidii, p., (Tabanidæ et Acanthomeridæ), *Bigot.*

The wing-veins and areolets in this family are nearly similar to those in the plate at the commencement of this Catalogue.

A. Proboscis exserta.
  A. Antennæ 10-articulatæ. - - - - 1. Pangonia.
  B. Antennæ 6, 7, aut 8-articulatæ.
    a. Antennæ 7-articulatæ.
      a. Proboscis longa.
        i. Proboscis elevata. - - - 2. Rhinomyza.
        ii. Proboscis incumbens
          1. Venæ cubitalis ramus 1us non furcatus. 3. Erodiorhynchus.
          2. Venæ cubitalis ramus 1us furcatus. 4. Ectenopsis.

b. Proboscis brevis.
i. Antennæ articulo 3o inciso aut dentato.
1. Proboscis gracilis. Palpi fere cylindrici. Facies convexa. - - - - 5. Dichelacera.
2. Proboscis plerumque crassa. Palpi maris ovati, fœm. conici. Facies depressa.
* Faciis nuda. - - - - 6. Tabanus.
** Facies maris hirtissima, fœm. pubescens. 7. Dasybasis.
ii. Antennæ articulo 3o simplici.
1. Ocelli nulli.
* Fœm. Frons angusta. Fœm. Palpi subulati.
† Antennæ articulis 1o et 2o acuminatis. 8. Acanthocera
†† Antennæ articulis 1o et 2o non acuminatis. 9. Diabasis.
** Fœm. Frons lata. Palpi ovati. obtusi.
† Corpus squamosum. - - 10. Hadrus.
†† Corpus non squamosum. - 11. Selasoma.
2. Ocelli tres.
* Antennarum articuli 1us et 2us breves.
† Venæ cubitalis furca antica ramulo brevi aut nullo. 12. Silvius.
†† Venæ cubitalis furca antica ramulum longum demittens. - - - - 13. Scepsis.
** Antennarum articuli 1us et 2us longi.
† Abdomen non compressum. - 14. Chrysops.
†† Abdomen fœminæ apice compressum. 15. Gastroxides.
B. Antennæ 6-articulatæ.
a. Antennæ articulis 3o ad 6um quasi unum fingentibus. 16. Hæmatopota.
b. Antennæ articulis 3o ad 6um discretis. - 17. Hexatoma
B. Proboscis retracta.
A. Palpi biarticulati. - - - 18. Raphiorhynchus.
B. Palpi quadriarticulati. - - - 19. Acanthomera.

Genus 1. PANGONIA.

Corpus magnum latiusculum. Oculi magni. Ocelli tres. Proboscis plus minusve elongata. Antennæ lanceolatæ, articulis 3o ad 10um arctissime connexis. Thorax fere planus. Pectus unisulcatum. Alæ divaricatæ. Abdomen thorace paullo latius.

Pangonia, *Latr.*; *Fabr.*; *Lam.*; *Wied.*; *Meig.*; *Macq.*; *Blanch.*
Bombylius, p., *Deg.*; *Oliv.*
Tabanus, p., *Linn.*; *Fabr.*; *Donov.*; *Guér,*; *Walk.*
Tanyglossa, *Meig.*; *Kl.*

Costal vein ending at the tip of the wing. Mediastinal ending at a little before two-thirds of the length. Subcostal ending at hardly before three-quarters of the length. Radial ending at a little beyond half the distance between the subcostal and the tip of the wing. First branch of the cubital ending at half the distance between the radial and the tip of the wing, often angular, and emitting a branch from its angle; second branch ending on the hind border far from the tip of the wing, often united to the first externo-medial at some distance from the border. Second, third, and fourth externo-medial veins complete. Subanal and anal often united near the border. Discal areolet elongated, hexagonal.

In 'Insecta Saundersiana,' Diptera, Pt. 1, this genus is divided into the following sections:—

1. Nuceria. 2. Fidena. 3. Dicrania, *Macq.* 4. Melpia. 5. Scaptia. 6. Pangonia. 7. Tacina. 8. Phara. 9. Clanis. 10. Osca. 11. Philoliche, *Hoffm.* 12. Scione. 13. Plinthina. 14. Scarphia. 15. Lilæa.

Europe.

The European species belong to two of the groups before-mentioned,—Pangonia and Facina.

A. Thorax ferrugineus.
  A. Alæ fusco maculatæ. - - - - maculata, *Fabr*
  B. Alæ fuscæ. - - - - - ferruginea, *Latr.*
B. Thorax flavicans. - - - - - - flava, *Meig.*
C. Thorax niger.
  A. Abdomen albo non maculatum.
    A. Alæ fuscæ. - - - - - marginata, *Fabr.*
    B. Areolarum disci plerumque limpidi. - cellulata, *Brullé.*
  B. Abdomen albo maculatum.
    A. Pedes nigri.
      a. Pedes antici fusci. - - - variegata, *Macq.*
      b. Tibiæ fuscescentes. - - - - micans, *Hoffm.*
    B. Pedes pallidi.
      a. Femora nigro-fusca. - - - ornata, *Meig.*
      b. Femora fulva. - - - - - picta, *Macq.*

1. PANGONIA MACULATA.

Ferruginea ; proboscis corpore dimidio brevior ; abdomen maculis fuscis ; alæ fusco maculatæ.

Pangonia, maculata, *Fabr.*

South Europe. North Africa.

2. PANGONIA FERRUGINEA.

Ferruginea, pilis flavo-fuscis ; antennæ nigræ, flavo cinctæ ; abdomen maculis dorsalibus nigris ; femora nigra ; alæ fuscæ.

Pangonia ferruginea, *Latr. Gen. Crust.* iv. 282. *Meig. Zweifl.* ii. 24, 3.

Tanyglossa ferruginea, *Meig. Klass. Zweifl.* i. 175, 1, pl. 10, f. 2.

Portugal.

3. PANGONIA FLAVA.

Flavicans, fuscescente hirta ; pedes fulvi ; alæ albido hyalinæ.

Pangonia flava, *Meig. Zweifl.* ii. 22, 1.

South France.

4. PANGONIA MARGINATA.

Nigra ; abdomen postice fulvo ciliatum ; pedes nigro-fusci ; alæ obscure fuscæ.

Pangonia marginata, *Fabr.*

Piedmont. Spain.

5. PANGONIA CELLULATA.

Fœm. *Nigra ; thorax maculis duabus humeralibus fulvis ; pedes fulvi ; alæ fuscæ, areolarum discalium apicalium et posticarum discis limpidis.*

Pangonia cellulata, *Brullé, Expl. Scient. de Morée, 3me Sér. Zool.* pl. 47, f. 1.

Greece.

6. PANGONIA VARIEGATA.

Nigra; facies et frons fulvæ; thorax cinereo pubescens, lineis albicantibus; abdomen glaucescens, segmento 2o albo marginato, 3o 4oque macula dorsali alba, 4o sequentibusque maculis lateralibus albis; pedes antici fusci; alæ subfuscescentes.

Pangonia variegata, *Macq. Hist. Nat. Ins. Dipt.* i. 195, 11. *Meig. Zweifl.* vii. 57, 7.

South Europe.

7. PANGONIA MICANS.

Nigra; thorax flavicante hirtus; abdomen trifarium albo maculatum, marginibus apicis fulvo-hirtis; tibiæ fuscescentes; alæ flavido-fuscæ.

Pangonia micans, *Hoffm.; Meig.*

Italy. Portugal.

8. PANGONIA ORNATA.

Nigra; thorax ferrugineo villosus; abdomen nigrum, albo fulvoque variegatum; pedes pallidi, femoribus nigro-fuscis; alæ dilute ferrugineæ.

Pangonia ornata, *Meig. Zweifl.* ii. 26, 6, pl. 13, f. 7.

South France?

9. PANGONIA PICTA.

Nigricans; antennæ fulvæ; thorax flavescente pubescens, fascia albida; abdomen fulvum, vitta dorsali nigra, maculis lateralibus marginibusque posticis albis; pedes fulvi; alæ fuscescentes.

Pangonia picta, *Macq. Hist. Nat. Dipt.* 7, 195, 12. *Meig. Zweifl.* vii. 58, 8.

South Europe.

North America.

10. PANGONIA FUSIFORMIS.

Pangonia fusiformis, *Diptera Saundersiana*, Pt. 1, 19.

Belongs to the group Philoliche.

11. PANGONIA INCISA.

Glauca ; antennæ fulvæ ; thorax flavido-hirtus ; abdomen saturate fuscum incisuris flavidis ; pedes fulvi ; alæ fuscanæ.

Pangonia incisa, *Wied. Auss. Zweifl.* i. 90, 6.
Pangonia incisuralis, *Say, Journ. Acad. Philad.* iii. 31.

Arkansa.

Mexico.

12. PANGONIA AURULANS.

Rubido-fusca ; antennæ fulvæ ; abdomen aurato-hirtum ; pedes fulvi, tibiis fuscescentibus, tarsis nigro-fuscis ; alæ fuscanæ.

Pangonia aurulans, *Wied. Auss. Zweifl.* ii. 620, 12.

13. PANGONIA BASILARIS.

Obscure fusca ; antennæ fulvæ ; thorax flavido-hirtus ; abdomen subferrugineum ; pedes fulvi, femoribus nigro-fuscis ; alæ subflavescentes, ima basi nigræ.

Pangonia basilaris, *Wied. Auss. Zweifl.* ii. 621, 13.

14. PANGONIA SEMIFLAVA.

Nigra ; antennæ apice flavæ ; abdomen flavum, basi nigrum ; alæ flavescentes, ima basi nigræ.

Pangonia semiflava, *Wied. Auss. Zweifl.* ii. 622, 16,

South America.

The South American species belong to the following groups :— Fidena, Dicrania, Melpia, Osca, Philoliche, and Scione.

15. PANGONIA BADIA.

Pangonia badia, *Cat. of Diptera*, Pt. 1, 132.

16. PANGONIA NIGROHIRTA.

Pangonia nigrohirta, *Cat. of Diptera*, Pt. 1, 132.

17. PANGONIA PICEOHIRTA.

Pangonia piceohirta, *Cat. of Diptera*, Pt. 1, 132.

18. PANGONIA RUFOHIRTA.

Pangonia rufohirta, *Cat. of Diptera*, Pt. 1, 131.

19. PANGONIA TENUISTRIA.

Pangonia tenuistria, *Cat. of Diptera*, Pt. 1, 143.

20. PANGONIA BASALIS.

Pangonia basalis, *Cat. of Diptera*, Pt. 1, 133.

21. PANGONIA OCELLUS.

Pangonia ocellus, *Cat. of Diptera*, Pt. 1, 143.

22. PANGONIA NANA.

Pangonia nana, *Diptera Saundersiana*, Pt. 1, 11.

23. PANGONIA COMPREHENSA.

Pangonia comprehensa, *Diptera Saundersiana*, Pt. 1, 11.

24. PANGONIA EXEUNS.

Pangonia exeuns, *Diptera Saundersiana*, Pt. 1, 12.

25. PANGONIA NOTABILIS.

Pangonia notabilis, *Diptera Saundersiana*, Pt. 1, 18.

26. Pangonia umbra.

Pangonia umbra, *Diptera Saundersiana*, Pt. 1, 19.

A. Antennæ non furcatæ.
  A. Corpus cæruleo-nigrum. - - - - longipalpis, *Macq.*
  B. Corpus nigrum.
    a. Thorax albo non vittatus nec hirtus.
      a. Alæ nigricantes. - - - - lugubris, *Macq.*
      b. Alæ fuscæ. - - - - - Besckii, *Wied.*
        i. Pedes fusci.
        ii. Pedes testacei. - - - - singularis, *Macq.*
      e. Alæ fusco maculatæ. - - - minor, *Macq.*
      f. Alæ flavicantes, basi nigræ. - - eriomera, *Macq.*
    b. Thorax albo vittatus.
      a. Frons non alba. - - - - incompleta, *Macq.*
      b. Frons alba. - - - - - albifrons, *Macq.*
    c. Thorax albo pilosus. - - - albithorax, *Macq.*
  C. Thorax niger. Abdomen pallidum.
    a. Alæ fuscanæ medio hyalinæ. - - fenestrata, *Macq.*
    b. Alæ subfuscæ. - - - - testaciventris, *Macq.*
    c. Alæ cinereæ, basi et ad costam subfuscæ. aurimaculata, *Macq.*
  D. Corpus nigrum; thorax vittis aurantiacis. Abdomen apice rufum. - - - - - depressa, *Macq.*
  E. Corpus nigro-fuscum. Abdomen apice fulvum. analis, *Fabr.*
  F. Thorax fuscus.
    a. Abdomen nigrum.
      a. Alæ infumatæ. - - - - fulvithorax, *Wied.*
      b. Alæ sublimpidæ. - - - - venosa, *Wied.*
    b. Abdomen fuscum.
      a. Antennæ pallidæ.
        i. Alæ flavidæ. - - - - albifasciata, *Macq.*
        ii. Alæ basi fuscæ. - - - basilaris, *Wied.*
        iii. Alæ fusciscentes. - - incisuralis, *Macq.*
      b. Antennæ nigræ. - - - - fasciata, *Macq.*
    c. Abdomen badium.
      a. Abdomen albo fasciatum. - - Winthemi, *Wied.*
      b. Abdomen albo non fasciatum. - - molesta, *Wied.*
    d. Abdomen ferrugineum.
      a. Barba nivea.
        i. Abdomen vitta maculari nigra. - marginatis, *Wied.*
        ii. Abdomen immaculatum. - leucopogon, *Wied.*

b. Barba flava. - - - - - sorbens, *Wied.*
E. Abdomen fulvum, apice fuscum. - longirostris, *Macq.*
G. Thorax ferrugineus. Abdomen badium. fuscipennis, *Wied.*
H. Corpus ferrugineum.
A. Alæ flavidæ. - - - - ferruginea, *Macq.*
B. Alæ fuscæ. - - - - xanthopogon, *Macq.*
I. Corpus badium. - - - - castanea, *Perty.*
J. Thorax rufus
A. Abdomen non viride.
a. Pedes rufi.
i. Abdomen non nigro pilosum.
1. Thorax non lineatus. - - - unicolor, *Macq.*
2. Thorax albido lineatus. - - lingens, *Wied.*
ii. Abdomen apicem versus nigro pilosum. ardens, *Macq.*
B. Pedes nigri.
i. Abdomen apice rufum. - - - rufa, *Macq.*
ii. Abdomen apice nigrum. - - translucens, *Macq.*
B. Abdomen viride. - - - prasiniventris, *Macq.*
K. Thorax testaceus. Abdomen viride. - viridiventris, *Macq.*
L. Corpus fulvum.
a. Alæ non fasciatæ. - - - tabanipennis, *Macq.*
B. Alæ fasciatæ. - - - - fascipennis, *Macq.*
B. Antennæ furcatæ.
A. Alæ fuscæ. - - - - - - cervus, *M. B.*
B. Alæ fascia apiceque limpidæ. - - furcata, *Wied.*

27. Pangonia longipalpis.

Fœm. *Cæruleo-nigra; thorax fusco pubescens; abdominis incisuræ albæ; pedes fusci; alæ cinereæ.*

Pangonia longipalpis, *Macq. Dipt. Exot. Suppl.* 3, 9, 40, pl. 1, f. 3.
Brazil.

28. Pangonia lugubris.

Fœm. *Nigra, albido hirta; alæ nigricantes, albido hirtæ.*

Pangonia lugubris, *Macq. Dipt. Exot.* i. 1, 104, 15, pl. 14, f. 2.
Brazil.

29. Pangonia Besckii.

Nigra; thorax utrinque flavo pilosus; abdomen maculis mediis albis; alæ fuscæ.

Pangonia Besckii, *Wied. Auss. Zweifl.* i. 97, 18.

Brazil.

30. Pangonia singularis.

Fœm. *Nigra; antennæ et pedes testacea; alæ fuscanæ, venæ cubitalis furca antica simplici, areola externo-mediana 4a clausa.*

Pangonia singularis, *Macq. Dipt. Exot. Suppl.* i. 23, 27.

New Grenada.

31. Pangonia minor.

Fœm. *Nigra; oculi hirti; antennæ pedesque fulva; thoracis lineæ abdominisque incisuræ flavidæ alæ fusco maculatæ.*

Pangonia minor, *Macq. Dipt. Exot. Suppl.* 2, 13, 43.

America.

32. Pangonia eriomera.

Mas. *Nigra; oculi hirsuti; antennæ rufæ; abdomen maculis dorsalibus albis; femora nigra, hirsuta, tibiæ tarsique flava; alæ flavicantes, basi nigræ.*

Pangonia eriomera, *Macq. Dipt. Exot.* i. 1, 105, 18, pl. 14, f. 3.

Brazil.

33. Pangonia incompleta.

Mas. *Nigra; oculi hirti; antennæ testaceæ, basi nigræ; thorax lineis albidis; abdomen maculis dorsalibus albis; alæ flavidæ.*

Pangonia incompleta, *Macq. Dipt. Exot. Suppl.* 1, 27, 35.

Colombia.

34. PANGONIA ALBIFRONS.

Fœm. *Nigra: frons alba; oculi hirsuti; thorax vittis quinque albicantibus; venæ cubitalis furca antica simplici, areola externo-mediana la clausa.*

Pangonia albifrons, *Macq. Dipt. Exot.* i. 1, 108, 24.
Chili.

35. PANGONIA ALBITHORAX.

Fœm. *Nigra; oculi hirsuti; thorax albo pilosus; abdomen segmentis duobus ultimis aurato pilosis; venæ cubitalis furca antica simplici, areolis externo-medianis la 4aque semi-apertis.*

Pangonia albithorax, *Macq. Dipt. Exot.* i. 1, 107, 22.
Chili.

36. PANGONIA FENESTRATA.

Fœm. *Nigra, nitida; oculi hirti; antennæ rufæ, apice nigræ; abdomen basi flavum, diaphanum, apice fuscum; pedes fusci tibiis fulvis; alæ fuscanæ medio hyalinæ.*

Pangonia fenestrata, *Macq. Dipt. Exot. Suppl.* 1, 26, 32.
Brazil.

37. PANGONIA TESTACEIVENTRIS.

Fœm. *Nigra; abdomen testaceum, fasciis vittaque dorsali nigris, lateribus albo notatis; tibiæ anteriores, tarsique fulva; alæ subfuscæ.*

Pangonia testaceiventris, *Macq. Dipt. Exot. Suppl.* 3, 9, 39.
Quito, Peru.

38. PANGONIA AURIMACULATA.

Fœm. *Nigra; oculi hirsuti; abdomen ferrugineum, maculis dorsalibus auratis; pedes fusci; alæ cinereæ, basi et ad costam subfuscæ.*

Pangonia aurimaculata, *Macq. Dipt. Exot.* i. 1, 105, 17.
Brazil.

39. Pangonia depressa.

Fœm. *Nigra; oculi hirsuti; thorax vittis lateralibus aurantiacis; abdomen segmentis duobus ultimis rufis; venæ cubitalis furca antica simplex; areolæ externo-medianæ la 4aque posticæ semiapertæ.*

Pangonia depressa, *Macq. Dipt. Exot.* i. 1, 107, 21.

Chili.

40. Pangonia analis.

Nigro-fusca; antennæ ferrugineæ; proboscis longitudine corporis; abdomen apice fulvum; pedes flavi, femoribus nigris; alæ limpidæ.

Pangonia analis, *Fabr. Syst. Antl.* 91, 6. *Wied. Dipt. Exot.* i. 1, 57, 11; *Auss. Zweifl.* i. 93, 12.

South America.

41. Pangonia fulvithorax.

Nigra; antennæ apice ochraceo-fuscæ; thorax et anus fulvo hirti; alæ infumatæ.

Pangonia fulvithorax, *Wied.*

Brazi

42. Pangonia venosa.

Fusca; antennæ nigro-fuscæ; abdomen nigrum; alæ sublimpidæ, venis fusco limbatis; pedes nigri.

Pangonia venosa, *Wied. Dipt. Exot.* i. 52, 1; *Auss. Zweifl.* i. 87, 1.

Brazil.

43. Pangonia albifasciata.

Fœm. *Fusca; oculi hirti; antennæ testaceæ apice fuscanæ; thorax lineis albidis; abdomen fasciis rufis; alæ flavidæ.*

Pangonia albifasciata, *Macq. Dipt. Exot. Suppl.* i. 28, 36.

New Grenada.

44. PANGONIA BASILARIS.

Fusca; abdomen maculis binoque fulvis; pedes flavi, femoribus obscure fuscis; alæ subflavescentes, basi fuscæ.

Pangonia basilaris, *Wied. Auss. Zweifl.* i. 554, 25.
Brazil.

45. PANGONIA INCISURALIS.

Fœm. *Fusca; antennæ pedesque fulva; oculi nudi; abdominis incisuræ flavæ; alæ fuscescentes.*

Pangonia incisuralis, *Macq. Dipt. Exot. Suppl.* 2, 12, 41.
Brazil?

46. PANGONIA FASCIATA.

Fœm. *Obscure fusca; abdomen fasciis flavicantibus; antennæ pedesque nigra; alæ antice flavescentes, postice fuscæ.*

Pangonia fasciata, *Macq. Dipt. Exot.* i. 1, 103, 14.
Brazil.

47. PANGONIA WINTHEMI.

Flavo-fusca; abdomen badium, albo fasciatum; alæ fuscanæ.

Pangonia Winthemi, *Wied. Zool. Mag.* iii. 44, 5; *Dipt. Exot.* i. 53, 3; *Auss. Zweifl.* i. 21, 8.
Brazil.

48. PANGONIA MOLESTA.

Fusca; thorax flavido hirtus et bilineatus; abdomen badium; alæ fuscano turbidæ.

Pangonia molesta, *Wied. Auss. Zweifl.* i. 91, 9.
Brazil.

49. Pangonia leucopogon.

Fusca ; antennæ, abdomen et pedes ferruginosa ; barba nivea ; thorax marginibus lateralibus albo pilosis.

Pangonia leucopogon, *Wied.*

Brazil.

50. Pangonia marginalis.

Glaucescente fusca ; antennæ fulvæ ; thoracis latera albo marginata ; abdomen subferrugineum, vitta maculari nigra, lateribus apice albo marginatis ; alæ fuscescentes.

Pangonia marginalis, *Wied. Auss. Zweifl.* ii. 620, 11.

Brazil.

51. Pangonia sorbens.

Glaucescente fusca, antennæ, abdomen et pedes subferruginea ; alæ fuscescentes.

Pangonia sorbens, *Wied.*

Monte Video.

52. Pangonia longirostris. (Nomen bis lectum.)

Fœm. *Fascia ; antennæ pedesque nigra ; proboscis corporis longitudine ; oculi hirsuti ; abdomen fulvum, apice fusco ; alæ subcinereæ.*

Pangonia longirostris, *Macq. Dipt. Exot. Suppl.* 2, 12, 42.

Brazil.

53. Pangonia fuscipennis.

Ferruginea ; antennæ fulvæ ; abdomen badium, maculis utrinque parvis albis ; alæ fuscæ, basi ferrugineæ.

Pangonia fuscipennis, *Wied. Auss. Zweifl.* i. 95, 16. *Macq. Dipt. Exot.* i. 1, 102, 12.

Brazil.

Note.—An injured specimen of this species is described as Tabanus subvarius, *Cat. of Diptera*, Pt. 1, 150.

54. Pangonia ferruginea.

Fœm. *Ferruginea; antennæ pedesque fulva; abdomen apicem versus fuscum; alæ flavidæ.*

Pangonia ferruginea, *Macq. Dipt. Exot.* i. 2, 179.
Brazil.

55. Pangonia xanthopogon.

Fœm. *Fusca, ferrugineo pubescens; oculi hirsuti; antennæ testaceæ; pedes fulvi; alæ fuscæ; venæ cubitalis furca antica simplex; areola externo-media* 1*a clausa.*

Pangonia xanthopogon, *Macq. Dipt. Exot.* i. 2. 179.
Brazil.

56. Pangonia castanea.

Badia; proboscis corporis longitudine; alæ ad costam præsertim flavicantes.

Pangonia castanea, *Perty, Del. Anim. Artic. Bras.* 182, pl. 36, f. 8.
Brazil.

57. Pangonia unicolor.

Fœm. *Rufa; oculi hirti; alæ fuscanæ.*

Pangonia unicolor, *Macq. Dipt. Exot. Suppl.* i. 27, 34.
Brazil.

58. Pangonia lingens.

Rubida; barba nivea; thorax albido lineatus, utrinque pilis niveis; abdomen incisuris flavo pilosis; alæ fuscæ.

Pangonia lingens, *Wied. Auss. Zweifl.* i. 87, 2. *Macq. Dipt. Exot.* 1, 103, 11.
Brazil.

59. PANGONIA ARDENS.

Fœm. *Antennæ testaceæ, apice nigræ; oculi hirsuti; thorax rufescens; abdominis segmenta prima quatuor pilis rufis, altera nigris; pedes rufi; alæ fuscanæ.*

Pangonia ardens, *Macq. Dipt. Exot.* i. 103, 13.
St. Leopold.

60. PANGONIA RUFA.

Fœm. *Rufa; oculi hirsuti; antennæ pedesque nigrâ; alarum venæ cubitalis furca antica simplex, areolæ externo-medianæ* 1*a* 4*a que apertæ.*

Pangonia rufa, *Macq. Dipt. Exot.* i. 1, 106, 19.
Lima.

61. PANGONIA TRANSLUCENS.

Fœm. *Rufescens, tomentosa; oculi nudi; abdomen depressum, elongatum, basi flavum, diaphanum, apice nigro; pedes nigri.*

Pangonia translucens, *Macq. Dipt. Exot. Suppl.* i. 26, 33.
Brazil.

62. PANGONIA PRASINIVENTRIS.

Fœm. *Rufa; abdomen viride; alæ subfuscæ.*

Pangonia prasiniventris, *Macq. Dipt. Exot. Suppl.* i. 29, 37.
Colombia.

63. PANGONIA VIRIDIVENTRIS.

Fœm. *Oculi hirsuti; thorax testaceus; abdomen viride; antennæ pedesque rufa; alæ venæ cubitalis furca antica simplici, areola externo-mediana* 1*a aperta.*

Pangonia viridiventris, *Macq. Dipt. Exot.* i. 1, 108, 23.
Chili.

64. Pangonia tabanipennis.

Fœm. *Fulva; oculi hirsuti; antennæ pedesque rufa; alæ fuscanæ, venæ cubitalis furca antica simplici, areola externo-mediana 1a aperta.*

Pangonia tabanipennis, *Macq. Dipt. Exot.* i. 1, 104, 16.
Brazil.

65. Pangonia fascipennis.

Mas. *Fulva; thorax fusco univittatus; abdomen fusco fasciatum; alæ fasciis tribus transversis obliquis fuscis.*

Pangonia fascipennis, *Macq. Dipt. Exot.* i. 1, 106, 20.
Chili.

66. Pangonia cervus.

Rubido fusca; proboscis thorace longior; antennæ et pedes ferruginei; alæ flavo-fuscæ.

Pangonia cervus, *M. B. Wied. Auss. Zweifl.* i. 94, 15.
Dicrania cervus, *Macq. Dipt. Exot.* i. 1, No. 1, pl. 15, f. 2.
Guiana.

Var. Fœm. *Fusco-ferruginea, subtus fulva; antennæ arcuatæ, furcatæ, ramosæ; proboscis corporis dimidio longior; pedes fulvi; alæ fusco-cinereæ.*

Female. Brownish ferruginous, short. Eyes æneous, pubescent, composed of very small facets. Antennæ curved, somewhat bristly towards the base: third joint with a long curved horn, the following joints with short branches. Proboscis much shorter than the body. Pectus and the under side of the abdomen tawny. Legs tawny. Wings brownish gray; veins blackish; first branch of the cubital forming near its base a sharply defined and very slightly obtuse angle, from whence it rejects the rudiment; first externo-medial vein forming the second branch of the cubital at some distance from the border. Length of the body 5½ lines; of the wings 12 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

Africa.

The species of this continent belong to the groups Nuceria, Phara, and Scarphia.

67. Pangonia furcata.

Radio-fusca; antennæ ferrugineæ, dente longissimo; alæ fuscæ, apiceque limpidis.

Pangonia furcata, *Wied. Auss. Zweifl.* i. 99, 22.
Dicrania furcata, *Macq.*
Brazil.

68. Pangonia adjuncta.

Pangonia adjuncta, *Cat. of Diptera*, Pt. 1, 135.

69. Pangonia fulvifascia.

Pangonia fulvifascia, *Cat. of Diptera*, Pt. 1, 137.

70. Pangonia parva.

Pangonia parva, *Cat. of Diptera*, Pt. 1, 145.

71. Pangonia conjuncta.

Pangonia conjuncta, *Cat. of Diptera*, Pt. 1, 135.

72. Pangonia multifaria.

Pangonia multifaria, *Cat. of Diptera*, Pt. 1, 134.

73. Pangonia sexfasciata.

Pangonia sexfasciata, *Cat. of Diptera*, Pt. 1, 13.

74. Pangonia alboatra.

Pangonia alboatra, *Diptera Saundersiana*, Pt. 1, 136.

75. Pangonia obesa.

Pangonia obesa, *Diptera Saundersiana*, Pt. 1, 14.

76. Pangonia directa.

Pangonia directa, *Diptera Saundersiana*, Pt. 1, 20.

A. Alæ limpidæ.
  A. Thorax quinque vittatus.
    a. Antennæ nigræ. - - - - - barbata, *Linn.*
    b. Antennæ testaceæ. - - - - flavipes, *Macq.*
  B. Thorax bivittatus. - - - - - gulosa, *M. B.*
  C. Thorax non vittatus. - - - - cingulata, *M. B.*
B. Alæ cinereæ aut subcinereæ.
  A. Proboscis corpore longior. - - - rostrata, *Linn.*
  B. Proboscis corpore brevior.
    a. Antennæ nigræ.
      a. Abdomen basi fulvum. - - - lateralis, *Fabr.*
      b. Abdomen non basi fulvum. - - atricornis, *Wied.*
    b. Antennæ ferrugineæ. - - - - bifasciata, *Wied.*
    c. Antennæ testaceæ, apice nigræ - - caffra, *Drege.*
C. Alæ fusco-cinereæ.
  A. Abdomen nigrum, albo varium. - - angulata, *Wied.*
  B. Abdomen fulvum, vitta nigra. - - subfascia, *Walk.*
D. Alæ flavo fuscescentes. - - - chrysostigma, *M. B.*
E. Alæ flavæ, apice fuscæ. - - - - chrysopila, *Macq.*
F. Alæ fuscæ.
  A. Corpus nigrum.
    a. Antennæ testaceæ. - - - - crassipalpis, *Macq.*
    b. Antennæ nigræ. - - - - - funebris, *Macq.*
  B. Corpus fuscum. - - - - Senegalensis, *Macq.*
  C. Thorax fuscus. Abdomen pallidum.
    a. Abdomen nigro vittatum. - - - varicolor, *M. B.*
    b. Abdomen nigro maculatum. - appendiculata, *Macq.*
F. Alæ infumatæ.
  A. Proboscis thoracis longitudine. - - thoracica, *M. B.*
  B. Proboscis thorace brevior. - - leucomelas, *M. B.*

G. Alæ nigræ. - - - - - - melanopyga, *Wied.*
H. Alæ flavescentes, fusco maculatæ. - - basalis, *Macq.*
I. Alæ luteæ, apice fuscæ - - - - - nobilis, *Wied.*
J. Alæ limpidæ fusco maculatæ. - - - spiloptera, *Wied.*

77. Pangonia barbata.

Nigra, albido hirta; thorax quinque vittatus; abdomen fasciatum; pedes rufescentes; alæ hyalinæ.

Tabanus barbatus, *Linn.*

Cape.

78. Pangonia flavipes.

Fœm. *Nigra; antennæ testaceæ; thorax vittis quinque cinereis; abdomen fuscum, incisuris fuscanis; pedes rufi; alarum venæ fusco marginatæ, areola externo-mediana 1a clausa.*

Pangonia flavipes, *Macq. Dipt. Exot.* i. 1, 98, 4.

Cape.

79. Pangonia gulosa.

Niger; antennæ pedesque fulva; thorax cinereo hirtus, albo bivittatus; abdomen nigrum, albo fasciatum; alæ limpidæ.

Pangonia gulosa, *M. B. Wied. Auss. Zweifl.* i. 99, 22.

Cape.

80. Pangonia cingulata.

Nigella, albo pilosa; abdomen incisuris luteis; tibiæ flavæ; alæ limpidæ.

Pangonia cingulata, *M. B. Wied. Auss. Zweifl.* i. 103, 29.

Cape.

81. Pangonia rostrata.

Schisticolor; proboscis corpore longior; antennæ nigræ; thorax nigro vittatus; abdomen basi utrinque subtestaceum; pedes nigri; alæ subcinereæ.

Tabanus rostratus, *Linn.*

Cape.

82. Pangonia lateralis.

Nigra; antennæ articulo 3o basi fulvo; thorax albido quadrivittatus; abdomen basi fulvum maculis mediis nigris, apice nigro fascia alba, pedes ferruginei; alæ cinereæ.

Pangonia lateralis, *Fabr.*

Cape.

83. Pangonia atricornis.

Nigra; thorax albido-vittatus; abdomen incisuris albidis; alæ subcinereæ.

Pangonia atricornis, *Wied. Dipt. Exot.* i. 58, 13; *Auss. Zweifl.* i. 103, 28.

Cape.

84. Pangonia bifasciata.

Glaucescens; antennæ ferrugineæ; abdomen nigrum fasciis duabus albis, basi utrinque et incisuris ochraceis; pedes fulvescentes; alæ subcinereæ.

Pangonia bifasciata, *Wied.*

Cape.

85. Pangonia caffra.

Fœm. *Nigra; antennæ testaceæ apice nigræ; oculi nudi; abdominis incisuræ flavo tomentosæ; alæ subcinereæ, basi flavæ.*

Pangonia caffra, *Drége; Macq. Dipt. Exot. Suppl.* 2, 11, 39.

Cape.

86. Pangonia angulata.

Atra; abdomen segmentis 2o et 4o margine toto, reliquis latere albis; alæ fusco cinereæ.

Pangonia angulata, *Fabr.*

Cape.

87. Pangonia subfascia.

Mas. *Nigra; caput testaceo tomentosum; palpi picei; proboscis thorace multo brevior; thorax testaceo quadrivittatus; abdomen fulvum, vitta dorsali apiceque nigris, maculis testaceis trivittatum; pedes picei; alæ cinereæ, antice et apud venas fuscæ, macula oblonga albida.*

Male. Black. Head clothed with pale testaceous tomentum and hairs. Palpi piceous. Proboscis much shorter than the thorax. Antennæ simple. Thorax with four testaceous stripes, the dorsal pair much more slender than the lateral pair. Abdomen tawny, black towards the tip, with a black dorsal stripe, and with three stripes of testaceous spots, the dorsal spots triangular and more distinct than the others. Tibiæ piceous. Wings gray, ferruginous in front and about the veins, and with an oblong whitish spot behind the stigma; first branch of the cubital vein forming a sharply defined slightly obtuse angle, which rejects a rather long branch; subanal vein joining the anal cloce to the border. Halteres testaceous. Length of the body 7 lines; of the wings 14 lines.

a. Port Natal. From Mr. Plant's collection.

88. Pangonia chrysostigma.

Nigra; antennæ et pedes ferruginea; thorax limbo aurato; abdomen maculis auratis; alæ flavo fuscescentes.

Pangonia chrysostigma, *M. B. Wied. Auss. Zweifl.* i. 100, 24.

Cape.

89. Pangonia chrysopila.

Nigra; antennæ testaceæ; thorax maculis lateralibus posticisque aureo pilosis; abdominis segmenta 2um, 4um et 5um maculis aureo pilosis, 6um et 7um marginibus posticis fulvis; pedes testacei; alæ flavæ apice fuscæ.

Pangonia chrysopila, *Macq. Hist. Nat. Dipt.* i. 194, 9.

Africa.

90. Pangonia crassipalpis.

Mas. *Nigra; palpi crassi; antennæ testaceæ; pedes rufi, femoribus fuscis; alæ fuscanæ.*

Pangonia crassipalpis, *Macq. Dipt. Exot.* i. 98, 3, pl. 14, f. 1.

Cape.

91. Pangonia funebris.

Nigra, nitida; abdominis segmenta ultima rubro limbata; alæ fuscæ.

Pangonia funebris, *Macq. Dipt. Exot. Suppl.* 1, 23, 26. *Explorat. Scient. de l'Algerie, An. Artic. Atlas Dipt.* pl. 1, f. 5.

Algiers.

92. Pangonia Senegalensis.

Fusca; antennæ nigricantes, apice testaceæ; abdominis segmenta apicalia lateribus flavo pilosis; pedes nigricantes; alæ fuscescentes, venæ cubitalis furca antica simplici.

Pangonia Senegalensis, *Macq. Hist. Nat. Dipt.* i. 193, 6.

Senegal.

93. Pangonia varicolor.

Fusca; antennæ ferrugineæ; abdomen ferrugineum, vitta nigra postice dilatata; pedes ferruginei; alæ fuscanæ.

Pangonia varicolor, *M. B. Wied.*

Cape.

94. Pangonia appendiculata.

Fœm. *Antennæ fulvæ; thorax fuscus; abdomine fulvum, maculis dorsalibus nigricantibus; pedes fulvi; alæ fuscanæ, arcula externo-mediana la semiaperta, discalis margine postico appendiculato.*

Pangonia appendiculata, *Macq. Dipt. Exot.* i. 97, 1, pl. 13, f. 2.

Cape.

95. PANGONIA THORACICA.

Nigra; thorax subcinereo glaucescens; abdomen fascia baseos alba; alæ infumatæ.

Pangonia thoracica, *M. B. Wied. Auss. Zweifl.* i. 89, 5.

Cape.

96. PANGONIA LEUCOMELAS.

Nigella; thorax utrinque albo pilosus; abdomen versus basim fascia utrinque latiore alba; alæ infumatæ.

Pangonia leucomelas, *M. B. Wied.*

Cape.

97. PANGONIA MELANOPYGA.

Pangonia melanopyga, *Wied. Macq. Dipt. Exot.* i. 1, 97, 2.

Cape.

98. PANGONIA BASALIS.

Fœm. *Nigra; caput, abdomen basi pedesque fulva; alæ flavescentes, fusco maculatæ, venæ cubitalis furca antica simplex.*

Pangonia basalis, *Macq. Dipt. Exot. Suppl.* 2, 10, 38.
Pangonia maculata, *Var.?*

Oran.

99. PANGONIA NOBILIS.

Nigra; antennæ ferrugineæ; thorax punctis, abdomen fascia punctisque auratis; pedes fulvi; alæ luteæ, apice fuscæ.

Pangonia nobilis, *Wied. Auss. Zweifl.* ii. 622, 15.

Cape.

100. PANGONIA SPILOPTERA.

Nigro, flavido hirta; antennæ articulo 3o rufo; abdomen basi olivaceum, incisuris fulvo hirtis; tibiæ posticæ plerumque fulvescentes; alæ limpidæ, macula apicali fusca.

Pangonia spiloptera, *Wied.*

Cape.

East Indies.

The species in this region belong to the group Nuceria.

101. PANGONIA LONGIROSTRIS.

Nigra, testaceo hirta ; proboscis corpore fere triplo longior, abdominis latera antica pedesque fulva ; alæ cinereæ, basi costaque luridis.

Pangonia longirostris, *Hardw.*

Hindostan.

102. PANGONIA AMBOINENSIS.

Fusca ; antennæ luteæ ; thorax albido lineatus ; abdomen maculis lateralibus incisurisque ferruginosis, ventre fulvo ; pedes testacei ; alæ fusco cinereæ.

Pangonia Amboinensis, *Fabr.*

East Indies. Amboina.

103. PANGONIA LASIOPHTHALMA.

Nigra ; thorax pilis flavescentibus ; abdomen lateribus subalbicantibus, basi testaceum ; pedes fulvi ; alæ fasciis duabus abbreviatis fuscis, venæ cubitalis furca antica simplici.

Pangonia lasiophthalma, *Macq. Hist. Nat. Dipt.* i. 193, 7.

New Guinea.

New Holland.

Species belonging to the subgenera Scaptia, Pangonia, Clanis, Plinthina, and Lilæa.

104. PANGONIA CONJUNGENS.

Pangonia conjungens, *Cat. of Diptera*, Pt. 1, 140.

105. PANGONIA GEMELLA.

Pangonia gemella, *Cat. of Diptera*, Pt. 1, 139.

106. PANGONIA LURIDA.

Pangonia lurida, *Cat. of Diptera*, Pt. 1, 140.

107. PANGONIA QUADRIMACULA.

Pangonia quadrimacula, *Cat. of Diptera*, Pt. 1, 138.

108. PANGONIA FULIGINOSA.

Pangonia contigua, *Cat. of Diptera*, Pt. 1, 138.
Pangonia fuliginosa, *Boisd. Voy. de l'Astrolabe*, *Ent. Dipt.* pl. 12, f. 13.

109. PANGONIA GEMINA.

Pangonia gemina, *Cat. of Diptera*, Pt. 1, 138.

110. PANGONIA MEDIA.

Pangonia media, *Cat. of Diptera*, Pt. 1, 142.

111. PANGONIA SOLIDA.

Pangonia solida, *Cat. of Diptera*, Pt. 1, 141.

112. PANGONIA CRASSA.

Pangonia crassa, *Cat. of Diptera*, Pt. 1, 144.

113. PANGONIA GIBBULA.

Pangonia gibbula, *Cat. of Diptera*, Pt. 1, 140.

114. PANGONIA PLANA.

Pangonia plana, *Cat. of Diptera*, Pt. 1, 144.

115. Pangonia submacula.

Pangonia submacula, *Cat. of Diptera*, Pt. 1, 142.

116. Pangonia inconspicua.

Pangonia inconspicua, *Cat. of Diptera*, Pt. 1, 136.
Pangonia Jacksoniensis, *Guér. Voy. de la Coquille Ins.* pl. 20, f. 3.

a. Melbourne. From Mr. Baly's collection.

117. Pangonia tricolor.

Pangonia tricolor, *Cat. of Diptera*, Pt. 1, 139.

118. Pangonia concolor.

Pangoniæ concolor, *Diptera Saundersiana*, Pt. 1, 14.

119. Pangonia constans.

Pangonia constans, *Diptera Saundersiana*, Pt. 1, 15.

120. Pangonia divisa.

Pangonia divisa, *Diptera Saundersiana*, Pt. 1, 17.

A. Corpus nigrum.
  A. Alæ fusco variegatæ. - - - - guttata, *Donov.*
  B. Alæ fusco non variegatæ.
    a. Thorax vittatus. - - - - auriflua, *Donov.*
    b. Thorax non vittatus.
      a. Abdomen apice auratum. - - - aurata, *Macq.*
      b. Abdomen apice non auratum.
        i. Abdomen maculis aureis. - - - dives, *Macq.*
        ii. Abdomen maculis albidis. - - clavata, *Macq.*
B. Thorax niger.
  A. Abdomen rufum. - - - - Jacksonii, *Macq.*
  B. Abdomen fulvum. - - - - bicolor, *Macq.*
C. Thorax cinereus. Abdomen nigrum. - ruficornis, *Macq.*
D. Corpus fuscum.

A. Pedes fusci. - - - - - - macroporum, *Macq.*
B. Pedes rufi. - - - - - - albicostata, *Macq.*
E. Thorax castaneus. Abdomen nigrum. - - dorsalis, *Macq.*
F. Thorax niger.
A. Abdomen testaceum. - - - fulviventris, *Macq.*
B. Abdomen fulvum. - - - - angusta, *Macq.*
G. Thorax flavidus. Abdomen fulvum. - - brevipalpis, *Macq.*
H. Corpus testaceum. - - - - - testacea, *Macq.*
I. Corpus ferrugineum. - - - - - Roei, *King.*

121. Pangonia guttata.

Nigra; thorax vittis duabus marginibusque externis, abdomen guttis mediis strigisque lateralibus albis; alæ fusco variegatæ.

Tabanus guttatus, *Donovan. Wied. Auss. Zweifl.* i. 194, 124. *Guér. Voy. de la Coquille Ins.* pl. 20, f. 10.

Australia.

122. Pangonia auriflua.

Niger; thoracis lineolæ duæ virides; abdominis puncta medio quatuor alba, anus aureus.

Tabanus aurifluus, *Donov. Gen. Illustr. Ent.* i. pl. *Hym. et Dipt.* fig. *Wied. Auss. Zweifl.* i. 194, 125.

New Holland.

123. Pangonia aurata.

Fœm. *Nigra; antennæ rufæ, apice fusco; oculi hirsuti; abdomen maculis dorsalibus incisurisque flavis, segmentis tribus ultimis auratis; pedes rufi, tibiis posticis fuscis; alæ venæ cubitalis furca antica simplici, areola externo-mediana la aperta.*

Pangonia aurata, *Macq. Dipt. Exot.* i. 1, 100, 7.

New Holland.

124. Pangonia dives.

Nigra; thorax cinereus, tomentosus; abdominis incisuræ maculæque dorsales aureæ; oculi hirti; alæ hyalinæ.

Pangonia dives, *Macq. Dipt. Exot. Suppl.* 1, 25, 30.

Tasmania.

125. Pangonia clavata.

Mas. *Nigra; palpi fusco testacei; oculi hirsuti; thorax albido vittatus; abdomen albido maculatum; tibiæ anteriores testaceo fuscæ; alæ cinereæ ad costam subflavæ, venæ cubitalis furca antica simplici, areola externo-mediana* 1*a semiaperta.*

New Holland.

126. Pangonia Jacksonii.

Antennæ rufæ; oculi hirsuti, thorax niger; abdomen rufum, maculis dorsalibus nigris; pedes rufi; alæ ad costam fulvæ.

Pangonia Jacksonii, *Macq. Dipt. Exot.* i. 1, 102, 10.

New Holland.

127. Pangonia bicolor.

Fœm. *Nigra; oculi hirsuti; antennæ testaceæ; abdomen fulvum, maculis fasciisque nigris; alæ subcinereæ, venæ cubitalis furca antica simplici, areola externo-mediana* 1*a clausa.*

Pangonia bicolor, *Macq. Dipt. Exot. Suppl.* 1, 24, 29.

New Holland.

128. Pangonia ruficornis.

Fœm. *Cinerea; oculi hirti; antennæ pedesque rufa; thorax vittis fuscis; abdomen nigrum, incisuris maculisque dorsalibus flavis, lateribus rufis.*

Pangonia ruficornis, *Macq. Dipt. Exot. Suppl.* 1, 25, 3 *b*.

Tasmania.

129. Pangonia macroporum.

Fœm. *Obscure fusca; oculi hirsuti; antennæ testaceæ; pedes fusci; alæ cinereæ, albido vittatis, nigro-fusco unimaculatæ.*

Pangonia macroporum, *Macq. Dipt. Exot.* i. 1, 101, 8, pl. 15, f. 2.

Kangaroo Island.

130. PANGONIA ALBICOSTATA.

Fusca; oculi hirti; abdominis incisuræ maculæque dorsales aureæ; antennæ pedesque rufa; alæ subcinereæ.

Pangonia albicostata, *Macq. Dipt. Exot. Suppl.* 1, 24, 28
New Holland.

131. PANGONIA DORSALIS.

Mas. *Thorax castanus; abdomen nigrum, maculis dorsalibus lateralibusque albis; pedes nigri; alæ areola externo-mediana la aperta.*

Pangonia dorsalis, *Macq. Dipt. Exot.* i. 1, 100, 6.
New Holland.

132. PANGONIA FULVIVENTRIS.

Mas. *Testacea; thorax niger; abdomen maculis dorsalibus flavicantibus; alæ basi flavicantes.*

Pangonia fulviventris, *Macq. Dipt. Exot.* i. 1, 109, 25.
New Holland?

133. PANGONIA ANGUSTA.

Mas. *Fulva; thorax, tibiæ posticæ tarsique nigra; alæ hyalinæ, basi costaque flavescentibus.*

Pangonia angusta, *Macq. Dipt. Exot. Suppl.* 2, 11, 40.
New Holland.

134. PANGONIA BREVIPALPIS.

Mas. *Fulva; thorax flavidus, vittis pallidis; abdominis incisuræ flavæ; alæ basi costaque flavis.*

Pangonia brevipalpis, *Macq. Dipt. Exot. Suppl.* 3, 8, 38.
New Holland.

135. PANGONIA TESTACEA.

Fœm. *Testacea; oculi hirsuti; antennæ pedesque rufa; alæ subcinereæ basi flavescentes, venæ cubitalis furca antica simplici, areola externo-mediana 1a semiaperta.*

Pangonia testacea, *Macq. Dipt. Exot.* i. 1, 99, 5.
New Holland.

136. PANGONIA ROEI.

Ferruginea, nitida; proboscis brevis; abdomen subtus testaceum; alæ fulvo-hyalinæ, apice margineque postico saturatioribus fasciisque duabus mediis obscuris marginalibus.

Pangonia Roei, *King.*
New Holland.

New Zealand.

137. PANGONIA LERDA.

Pangonia Lerda, *Diptera Saundersiana*, Pt. 1, 16.

138. PANGONIA ADREL.

Pangonia Adrel, *Diptera Saundersiana*, Pt. 1, 16.

Country unknown.

139. PANGONIA HEBES.

Pangonia hebes, *Cat. of Diptera*, Pt. 1, 137.

140. PANGONIA INCONSPICUA.

Pangonia inconspicua, *Cat. of Diptera*, Pt. 1, 136.

141. PANGONIA PATULA.

Pangonia patula, *Cat. of Diptera*, Pt. 1, 144.

142. Pangonia fasciata.

Flavescens; antennæ nigræ, basi fuscæ; thoraæ nigro trivittatus, scutello cinereo; abdominis segmenta antice nigra postice albida; pedes fulvi; alarum venæ fusco marginatæ, areola 1a posterior aperta.

Pangonia fasciata, *Macq. Hist. Nat. Dipt.* i. 194, 8.

Genus 2. RHINOMYZA.

Oculi maximi, mare contigui. Proboscis porrecta, adscendens, longa. Palpi basi proboscidis inserti, triarticulæti; articulus 1us brevissimus; 2us longior; 3us 2o multo longior. Antennæ 7-articulatæ; articulus 1us cylindricus, breviusculus; 2us cyathiformis; 3us et sequentes quasi unum fingentes elongatum paullo recurvum.

Rhinomyza, *Wied. Nova. Dipt. Gen.* 8; *Auss. Zweifl.* i. 104. *Macq.*

1. Rhinomyza fusca.

Fusca; antennæ nigræ; abdomen basi et medio ferrugineum; pedes nigro-fusci; alæ fuscæ, maculis duabus flavidis.

Rhinomyza fusca, *Wied. Nova Dipt. Gen.* 8; *Dipt. Exot.* i. 59, 1; *Auss. Zweifl.* i. 104, 1.

Java.

2. Rhinomyza edentula.

Nigra, nitens, cinereo hirta; abdomen basi utrinque macula testacea; tibiæ fuscæ; alæ limpidæ.

Rhinomyza edentula, *Wied. Auss. Zweifl.* i. 105, 2.

Cape.

Genus 3. ERODIORHYNCHUS.

Ocelli tres. Proboscis longa, incumbens. Antennæ 7-articulatæ, articulo 3o non exciso. Alarum venæ cubitalis furca 1a simplex.

Erodiorhynchus, *Serville, MSS. Macq.*

Mediastinal vein ending at two-thirds of the length of the wing. Subcostal ending at three-fourths of the length. Radial ending at about half the distance between the subcostal and the tip of the wing. First branch of the cubital simple, very slightly curved, forming a slightly obtuse angle near its base; second branch ending on the hind border far from the tip. Four complete separate externo-medial veins. Subanal vein united to the anal close to the border. Discal areolet narrow, elongated, hexagonal.

1. ERODIORHYNCHUS ERISTALOIDES.

Niger; thorax cinereo pilosus; abdominis segmentorum 1*i et* 2*i latera tibiæque rufa; alæ hyalinæ, basi et ad costam subflavæ.*

Erodiorhynchus eristaloides, *Macq.*

Cape.

Genus 4. ECTENOPSIS.

Ocelli tres. Proboscis longa, incumbens. Antennæ 7-articulatæ, articulo 3o non exciso. Alarum venæ cubitalis furca 1a ramulum emittens.

Ectenopsis, *Macq.*

Costal vein ending at the tip of the wing. Mediastinal ending at before two-thirds of the length. Subcostal ending before three-fourths of the length. Radial ending at beyond half the distance between the subcostal and the tip of the wing. First branch of the cubital ending at a little nearer to the tip of the wing than to the radial, angular near its base, and emitting an extremely short branch from the angle; second branch ending on the hind border far from the tip of the wing. Four complete externo-medial veins. Subanal vein united to the anal close to the border. Discal areolet irregularly pentagonal, much elongated.

1. ECTENOPSIS VULPECULA.

Ferruginea; antennæ apice nigræ; pedes nigri; alæ fumato-cinereæ, basi ferrugineæ.

Chrysops vulpecula, *Wied.*

Genus 5. DICHELACERA.

Facies convexa. Proboscis brevis, gracilis. Palpi fere cylindrici. Antennæ 7-articulatæ, articulo 3o cornuto. Alæ sæpissime vittatæ.

Dichelacera, *Macq.*
Chrysops, p., *Fabr.*
Tabanus, p., *Wied.*

Costal vein ending at the tip of the wing. Mediastinal ending at before two-thirds of the length. Subcostal ending at nearly three-fourths of the length. Radial ending at much beyond half the distance between the subcostal and the tip of the wing. First branch of the cubital simple, curved, ending at half the distance between the radial and the tip of the wing, forming a rounded angle near its base; second branch ending on the hind border far from the tip of the wing. Four complete externo-medial veins. Subanal vein united to the anal very near the border. Discal areolet hexagonal, much elongated.

North America.

1. DICHELACERA FERRUGATA.

Glaucus; thoracis limbus ferrugineus; abdomen ferrugineum, apice fuscum; alæ medio apiceque fuscæ.

Chrysops ferrugatus, *Fabr.*
Carolina.

2. DICHELACERA FASCIATA.

Dichelacera fasciata, *Diptera Saundersiana*, Pt. 1, 68.
North America.

Mexico.

3. DICHELACERA SCAPULARIS.

Fœm. *Nigra; facies antennæque basi fulvæ; scapulæ, abdominis segmentum 1um incisuræque flavida; pedes fusci, tibiis anticis basi fulvis; alæ hyalinæ, marginibus fuscis.*

Dichelacera scapularis, *Macq. Dipt. Exot. Suppl.* 2, 15, 9.

West Indies.

4. DICHELACERA ABIENS.

Dichelacera abiens, *Cat. of Diptera*, Pt. 1, 191.

South America.

5. DICHELACERA ALCICORNIS.

Dichelacera alcicornis, (*Wied.*) *Cat. of Diptera*, Pt. 1, 190.
Brazil.

6. DICHELACERA REPANDA.

Dichelacera repanda, *Cat. of Diptera*, Pt. 1, 190.
Venezuela.

7. DICHELACERA BIFACIES.

Dichelacera bifacies, *Cat. of Diptera*, Pt. 1, 191.
a. Parà.

8. DICHELACERA PRÆTEREUNS.

Dichelacera prætereuns, *Diptera Saundersiana*, Pt. 1, 69, pl. 2, f. 6.
South America.

9. DICHELACERA VACILLANS.

Dichelacera vacillans, *Diptera Saundersina*, Pt. 1, 70.
Brazil.

10. DICHELACERA MULTIFASCIA.

Dichelacera multifascia, *Diptera Saundersiana*, Pt. 1, 68.
Parà.

11. DICHELACERA SPARSA.

Dichelacera sparsa, *Diptera Saundersiana*, Pt. 1, 71.
Brazil.

A. Thorax niger.
  A. Scutellum nigrum.
    a. Alæ fusco fasciatæ. - - - - longicornis, *Macq.*
    b. Alæ flavescentes. - - - - fulvohirta, *Wied.*
  B. Scutellum testaceum. - - - fuscipennis, *Macq.*
B. Thorax nigro-fuscus. - - - - damicornis, *Fabr.*
  A. Scutellum nigro-fuscum.
  B. Scutellum ferrugineum. - - - transposita, *Walk.*
C. Thorax fuscus. - - - - - immaculata, *Macq.*
D. Thorax rufus. - - - - - capreolus, *Wied.*
E. Thorax fulvus.
  A. Thorax fusco fasciatus. - - - T-nigrum, *Wied.*
  B. Thorax non fasciatus.
    a. Alæ non fasciatæ. - - - - marginata, *Macq.*
    b. Alæ fasciatæ. - - - - - rufa, *Macq.*
    c. Alæ vittatæ. - - - - - hinnulus, *Walk.*
F. Thorax flavus.
  A. Alæ fasciatæ. - - - - - - Januarii, *Wied.*
  B. Alæ maculatæ. - - - - cervicornis, *Fabr.*
  C. Alæ croceæ, apice infumatæ. - - - flava, *Wied.*
G. Thorax testaceus. - - - - - testacea, *Macq.*
H. Thorax albidus.
  A. Thorax fasciatus. - - - - - alcicornis, *Wied.*
  B. Thorax non fasciatus. - - - unifasciata, *Macq.*

12. Dichelacera longicornis.

Fœm. *Nigra; antennæ rufæ, capite longiores; abdomen incisuris flavis; tibiæ flavicantes; alæ margine externo fasciaque obliqua fuscis.*

Dichelacera longicornis, *Macq. Dipt. Exot.* i. 1, 114, 2, pl. 16, f. 2.

Brazil.

13. Dichelacera fulvohirta.

Nigra, fulvo hirta; antennæ dente validissimo elongato; pedes intermedii omnino, ceteri geniculis tarsisque ferruginosis; alæ flavescentes.

Tabanus fulvohirtus, *Wied. Auss. Zweifl.* i. 155, 70.

Brazil.

14. Dichelacera fuscipennis.

Fœm. *Nigra; scutellum testaceum; abdominis incisuræ flavidæ; tibiæ fulvæ, basi albæ, apice nigræ; alæ fuscæ, basi hyalinæ.*

Dichelocera fuscipennis, *Macq. Dipt. Exot. Suppl.* 2, 14, 7.
Brazil.

15. Dichelacera damicornis.

Nigro-fusca; antennæ nigræ, basi ferrugineæ, dente incurva sat longa; thorax fasciis duabus fulvis; abdomen basi pallidius; alæ fusco pictæ.

Tabanus damicornis, *Fabr. Syst. Antl.* 101, 36. *Wied. Dipt. Exot.* i. 87, 45; *Auss. Zweifl.* i. 159, 75.
South America.

16. Dichelacera transposita.

Fœm. *Nigro-picea; caput subtus albo tomentosum; palpi ferruginei; thoracis latera et scutellum obscure ferruginea; abdominis segmenta marginibus posticis canis; tibiæ anticæ albæ, apice nigræ; alæ subcinereæ, vitta costali fasciisque duabus nigro-fuscis.*

Female. Piceous black. Head clothed beneath with white tomentum and down. Eyes æneous. Proboscis and palpi ferruginous. Antennæ slightly curved; horn curved, moderately long. Thorax slightly ferruginous on each side. Scutellum ferruginous. Hind borders of the abdominal segments hoary. Fore tibiæ white, black towards their tips. Wings slightly gray, blackish brown along the costa to beyond three-fourths of the length, and with two blackish brown bands, the first at the base, extending obliquely to the hind border, the second beyond the middle; veins black; first fork of the cubital vein simple, forming an oblique and somewhat rounded angle near the base. Subanal vein joining the anal near the border. Length of the body 4½ lines; of the wings 9 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

17. DICHELACERA IMMACULATA.

Fœm. *Antennæ, abdomen pedesque rufa; thorax fuscus; alæ immaculatæ.*

Dichelacera immaculata, *Macq. Dipt. Exot.* i. 1, 115, 4.
Brazil.

18. DICHELACERA CAPREOLUS.

Intense rubida; antennæ rufo-fuscæ dente armatæ, apice nigræ; thorax nigro trivittatus; alæ ima basi, vitta versus basim et macula magna pone medium fuscis.

Tabanus capreolus, *Wied. Auss. Zweifl.* i. 162, 78.
Brazil.

19. DICHELACERA T-NIGRUM.

Fulva; thorax fusco fasciatus; antennæ dente elongato; abdomen apice fuscum; alæ flavidæ, costa fascia vittisque duabus fuscis.

Tabanus T-nigrum, *Fabr. Syst. Antl.* 101, 38. *Wied. Auss. Zweifl.* i. 160, 76.
South America.

20. DICHELACERA MARGINATA.

Fœm. *Fulva; abdominis apex fusca, incisuris flavis; tarsi antici posticique fusci; alæ hyalinæ, marginibus fuscanis.*

Dichelacera marginata, *Macq. Dipt. Exot. Suppl.* 2, 14, 8.
Cayenne.

21. DICHELACERA RUFA.

Fœm. *Fulva; antennæ apice fuscæ; tarsi antici fusci; alæ flavæ, fascia obliqua irregulari maculaque fuscis.*

Dichelacera rufa, *Macq. Dipt. Exot. Suppl.* 2, 13, 6.
Dichelacera Januarii, Var.?
Brazil.

22. Dichelacera hinnulus.

Fulva; antennæ apice nigræ; tibiæ posticæ apice necnon tarsi antici posticique picea; alæ limpidæ, apice cinereæ, costa vittaque fulvis.

Dichelacera hinnulus, *Walk. Zool.* viii. *Append.* cxxii.

a. Parà. From Mr. Bates' collection.

23. Dichelacera Januarii.

Flavida; antennæ dente elongato; thorax et abdomen fusco fasciata; alæ ad costam late fuscæ, macula silacea, fascia obliqua punctoque fuscis.

Tabanus Januarii, *Wied. Zool. Mag.* iii. 43, 4; *Dipt. Exot.* i. 94, 55; *Auss. Zweifl.* i. 162, 79.

Rio Janeiro.

24. Dichelacera cervicornis.

Flavidus; antennæ ferrugineæ, apice nigræ, dente elongato; thorax fascia fusca; pedes pallide flavi, tibiis posticis tarsisque nigris; alæ fusco maculatæ.

Tabanus cervicornis, *Fabr. Syst. Antl.* 100, 35. *Wied. Dipt. Exot.* i. 79, 32; *Auss. Zweifl.* i. 157, 73.

South America.

25. Dichelacera flava.

Ardentissime flava; antennæ ferrugineæ, dente elongata incurva; alæ croceæ, apice infumatæ.

Tabanus flavus, *Wied. Auss. Zweifl.* i. 163, 80.

Monte Video.

26. Dichelacera testacea.

Fœm. *Testacea; antennæ apice nigræ; abdomen maculis dorsalibus flavis, apice fuscum; pedes fulvi; alæ flavidæ, fasciis duabus fuscis.*

Dichelacera testacea, *Macq. Dipt. Exot. Suppl.* i. 29, 5.

Colombia.

27. DICHELACERA ALCICORNIS.

Albida; antennæ dente elongato; thorax vittis tribus postice confluentibus; abdomen flavidum, fusco fasciatum; alæ semifasciatæ.

Tabanus alcicornis, *Wied.*

Brazil.

28. DICHELACERA UNIFASCIATA.

Fœm. *Antennæ ferrugineæ; thorax albicans; abdomen flavicans, fasciis fuscis; femora flava, tibiæ fuscæ; alæ margine externa fasciaque obliqua fuscis.*

Dichelacera unifasciata, *Macq. Dipt. Exot.* i. 1, 115, 3.

Brazil.

Africa.

29. DICHELACERA BINOTATA.

Mas et Fœm. *Rufa; abdominis segmentum 2um maculis duabus rufis; alæ basi fascia transversa maculaque postica fuscis.*

Dichelacera binotata, *Macq. Dipt. Exot.* i. 1, 113, 1.

Cape.

Genus 6. TABANUS.

Corpus magnum aut maximum, oblongum, sæpissime nigrum, tomento et pilis pallidioribus. Ocelli nulli. Palpi maris capitati, fœminæ subulati. Antennæ 7-articulatæ, subretusæ; articulus 1us cylindricus, subclavatus, apice truncatus; 2us cyathiformis; 3us compressus, supra excisus. Alæ divaricatæ; areola analis retracta.

Tabanus, *Fall. Dipt. Suec.; Meig.; Macq.; Zett.; Curt.; Westw.; Zeller.*

Tabanus, p., *Linn.; Fabr.; Latr.; Wied.*

Costal vein ending at the tip of the wing. Mediastinal ending before two-thirds of the length. Radial ending at a little before

three-fourths of the length. First branch of the cubital curved, more or less angular and often forked near its base, ending at half the distance between the radial and the tip of the wing; second branch ending on the hind border very far from the tip. Four complete externo-medial veins. Subanal generally united to the anal near the border. Discal areolet elongated, hexagonal.

1. TABANUS DECISUS.

Tabanus decisus, *Cat. of Diptera*, Pt. 1, 171.

2. TABANUS INFUSUS.

Tabanus infusus, *Diptera Saundersiana*, Pt. 1, 23.

Albania.

A. Alæ limpidæ.
  A. Alæ unicolores.
    a. Abdomen plus minusve ferrugineum aut flavum.
      a. Abdomen flavo maculatum et fasciatum. chlorophthalmus, *Meig.*
      b. Abdomen segmentis postice fulvis. - sudeticus, *Zeller.*
      c. Abdomen ferrugineum, vitta nigra. - græcus, *Fabr.*
      d. Abdomen maculis lateralibus ferrugineis. lateralis, *Meig.*
    b. Abdomen utrinque luridum. - - montanus, *Meig.*
    c. Abdomen nigrum.
      a. Abdomen albo non maculatum.
        i. Tibiæ fulvæ. - - - - - rusticus, *Linn.*
        ii. Tibiæ albidæ. - - - sublunaticornis, *Zett.*
      b. Abdomen basi albo villosum. - tricolor, *Zeller.*
      c. Abdomen albo maculatum.
        i. Antennæ nigræ.
          1. Tibiæ testaceæ. - - - nigricornis, *Zett.*
          2. Tibiæ rufescentes. - - - scalaris, *Hoffm.*
        ii. Antennarum articulus ultimus basi ferrugineus. confinis, *Zett.*
        iii. Antennæ fusco ferrugineæ. - maculicornis, *Zett.*
  B. Alæ basi flavæ. - - - - - - ruralis, *Zett.*
  C. Alæ ad costam subflavescentes. - - - plebeius, *Fall.*
  D. Alæ ad costam ferrugineæ. - - - - rufipes, *Meig.*
  E. Alæ basi et ad costam subfulvæ. - - - alpinus, *Schr.*
  F. Alæ ad costam et apud venas ochraceæ. maroccanus, *Fabr.*
  G. Alæ venis ex parte fusco limbatis. - - signatus, *Wied.*
  H. Alæ strigis flavescentibus. - - fulvicornis, *Meig.*

I. Alæ macula media fusca. - - - umbrinus, *Hoffm.*
J. Alæ submaculatæ. - - - - albomaculatus, *Zett.*
K. Alæ venarum marginibus nubecuiaque obscurioribus. nigerrimus, *Zett.*
L. Alæ cinereo strigatæ.
B. Alæ subalbidæ apud venas paullo obscuriores. carbonatus, *Macq.*
C. Alæ sublimpidæ. - - - - - atricornis, *Meig.*
A. Antennæ atræ.
B. Antennæ basi ferrugineæ. - - punctifrons, *Wahlb.*
D. Alæ subcinereæ. - - - - - - cordiger, *Wied.*
A. Alæ unicolores.
A. Abdomen fusco maculatum. - - flaviceps, *Zett.*
B. Abdomen cinereo maculatum. - - nemoralis, *Meig.*
C. Abdomen albido maculatum.
a. Antennæ nigræ. - - - - latifrons, *Zett.*
b. Antennæ fulvæ. - - - - - glaucus, *Meig.*
D. Abdomen ferrugineo maculatum.
a. Antennæ fuscæ, basi testaceæ. - - lunulatus, *Meig.*
b. Antennæ fulvæ, apice fuscæ. - glaucopis, *Meig.*
E. Abdomen fulvo maculatum. - - - bromius, *Linn.*
F. Abdomen flavicante maculatum. - 4-notatus, *Meig.*
B. Alæ ad costam flavescentes. - - dimidiatus, *Meig.*
C. Alæ ad costam fusco ferrugineæ. - - borealis, *Fabr.*
D. Alæ ad costam fuscæ. - - - lateralis, *Brullé.*
E. Alæ basi et ad costam fulvæ. - - bovinus, *Linn.*
F. Alæ venis transversis fuscatis. - - - aurjpilus, *Meig.*
E. Alæ cinereæ.
A. Alæ unicolores. - - - - - autumnalis, *Linn.*
B. Alæ basi et ad costam fuscescentes.
A. Abdomen albo maculatum. - - - lugubris, *Zett.*
B. Abdominis latera ferruginea. - - lapponicus, *Wahlb.*
C. Abdominis latera fulva.
a. Antennæ nigræ, basi ferrugineæ. - luridus, *Fall.*
b. Antennæ ferrugineæ, apice nigræ. - solstitialis, *Meig.*
c. Alæ basi et ad costam fulvæ. - - tropicus, *Linn.*
D. Alæ subcinereo fuscæ. - - - austriacus, *Fabr.*
F. Alæ cinereo fuscescentes, basi flavescentes. - albipes, *Fabr.*
G. Alæ fusco-cinereæ. - - - - spodopterus, *Wied.*
H. Alæ subfuscescentes.
A. Alæ unicolores. - - - - - atricornis, *Zett.*
B. Alæ ad costam fuscæ.
A. Tibiæ nigræ. - - - - aterrimus, *Meig.*
B. Tibiæ albidæ. - - - - - apricus, *Meig.*

c. Alæ ad costam ferrugineæ. - - ferrugineus, *Meig.*
d. Alæ ad costam flavæ. - - bimaculatus, *Macq.*
e. Alæ ad costam et apud venas flavo-fuscæ.
Tarandinus, *Linn.*
I. Alæ fusco nebulosæ. - - - - Istriensis, *Meig.*
J. Alæ fuscæ.
A. Abdomen omnino nigrum. - - carbonarius, *Meig.*
B. Abdomen apice albo villosum. - - - morio, *Fabr.*
K. Alæ fuscæ, vitta limpida. - - - maculipennis, *Brullé.*
L. Alæ fuliginosæ. - - - - - fuscatus, *Macq.*
M. Alæ flavo fuscescentes. - - - anthracinus, *Hoffm.*

3. Tabanus chlorophthalmus.

Niger; oculi smaragdini, fasciis tribus atro purpureis; antennæ ferrugineæ; thorax flavicante pilosus, vittatus; abdomen flavo maculatum et fasciatum; tibiæ flavæ, apice nigræ; alæ hyalinæ.

Tabanus chlorophthalmus, *Megerle; Meig. Zweifl.* ii. 58, 36.
Austria.

4. Tabanus sudeticus.

Oculi nudi, maris areolis inferne minutissimis; abdomen nigrum, lateribus antice vix badium, segmentis postice late fulvis, serie triangularum brevium flavescentium dorsali nigro cincta; femora nigro pilosa.

Tabanus sudeticus, *Zeller, Isis*, 1842, 815, 2, f. 5—8.
Austria.

5. Tabanus græcus.

Nigro-fuscus; antennæ fulvæ, apice nigræ; abdomen ferrugineum, cano micans, vitta dorsali apiceque nigricantibus; tibiæ fulvæ, apice fuscæ; alæ hyalinæ.

Tabanus græcus, *Fabr.*
a. Italy. From Dr. Leach's collection.
b. Interlacken, Switzerland. Presented by F. Walker, Esq.

6. Tabanus lateralis.

Niger; abdominis segmenta tria antica maculis lateralibus ferrugineis; pedes picei; alæ limpidæ.

Tabanus lateralis, *Megerle; Meig.*

7. Tabanus montanus.

Nigro-fuscus; frons fœminæ *flavicans, callo lineolaque nigris; abdomen utrinque luridum, vitta media nigricante; tibiæ fulvæ, apice fuscæ; alæ hyalinæ.*

Tabanus montanus, *Meig. Zweifl.* ii. 55, 31.

8. Tabanus rusticus.

Nigricans, dense flavo-cinereo hirtus; abdomen maris *concolor,* fœminæ *seriebus quatuor maculis fuscis; antennæ fulvæ apice fuscæ; pedes fulvi, tarsis anticis femoribusque nigris; alæ limpidæ.*

Tabanus rusticus, *Linn. Zett. Dipt. Scand.* i. 119, 21.

9. Tabanus sublunaticornis.

Mas. *Niger, undique cinereo villosus; oculi æneseentes transversim purpureo subunilineati, linea infra medium oculi; palpi tibiæque basi, alba; antennarum articulus ultimus fulvus; abdominis segmenta margine albo ciliata; alæ immaculatæ.*

Tabanus sublunaticornis, *Zett. Dipt. Scand.* i. 118, 20.

Norway.

10. Tabanus tricolor.

Oculi hirti, sine fascia; thorax niger, macula laterali ac parte postica cum scutello albo villosis; abdomen nigrum, basi albo villosum, ano late ferrugineo hirto.

Tabanus tricolor, *Zeller, Isis,* 1842, 819, 1, f. 23—25.

South Russia.

11. Tabanus nigricornis.

Mus. *Niger; oculi æneseentes transversim purpureo subunilineati, linea in medio oculi distincta; palpi sordide albidi; abdominis segmenta margine tenuiter ferrugineo ciliata, antica lateribus ferrugineis; alæ subimmaculatæ.*

Tabanus alpinus, *Zett. Ins. Lapp.* 506, 7; *Dipt. Scand.* i. 116, 6; viii. 2938, 16.

Fœm. *Nigricans; oculi æneseentes transversim purpureo trilineati, linea media in medio oculi; palpi albi; antennæ atræ; thorax albido lineatus; abdomen cinereo trifariam maculatum; tibiæ basi testaceæ; alæ immaculatæ.*

Tabanus nigricornis, *Zett. Dipt. Scand.* i. 112, 12; viii. 2937, 12.
Sweden.

12. Tabanus scalaris.

Nigricans; thorax albo lineatus; abdomen trifariam albo maculatum, maculis lateralibus excisis; tibiæ rufescentes; alæ limpidæ.

Tabanus scalaris, *Hoffm.*; *Meig. Zeiwfl.* ii. 38, 11.
Naples.

13. Tabanus confinis.

Fœm. *Niger; oculi virides transversim purpureo trilineati, linea media in medio oculi; palpi tibiæque albida; antennarum articulus ultimus basi ferrugineus; thorax lineis sub quinis abdominisque maculis trifariam positis, albis; alæ immaculatæ.*

Tabanus confinis, *Zett. Ins. Lapp.* 516, 10; *Dipt. Scand.* i. 118, 19.
Sweden.

14. Tabanus maculicornis.

Mas et Fœm. *Niger; oculi nudi ænei transversim purpureo unilineati, linea fere in medio oculi; palpi tibiæque basi alba; abdomen maculis trifariam positis, albidis; antennæ ferrugineæ, basi apiceque nigræ; alæ immaculatæ.*

Tabanus maculicornis, *Zett. Dipt. Scand.* i. 117, 18; viii. 2939, 18.

Sweden.

15. Tabanus ruralis.

Fœm. *Fusco-cinereus, parum pubescens; oculi flavo virescentes immaculati; palpi albi; antennæ luteæ; abdominis maculæ duæ basales laterales tibiæque ferrugineo testaceæ; alæ basi flavæ.*

Tabanus ruralis, *Zett. Ins. Lapp.* 517, 11; *Dipt. Scand.* i. 120, 23.

16. Tabanus plebeius.

Nigricans, dense cinereo hirtus; oculi unilineati, antennæ fulvæ; pedes fulvi, femoribus posticis basi tarsisque anticis nigris; alæ limpidæ, ad costam subflavescentes.

Tabanus plebeius, *Fall. Dipt. Suec.* 8, 9; *Meig. Zweifl.* ii. 62, 42.

17. Tabanus rufipes.

Nigricans; frons immaculatus; antennæ ferrugineæ, apice nigræ; abdomen trifariam ferrugineo maculatum; pedes ferruginei, tarsis fuscis; alæ hyalinæ, ad costam ferrugineæ.

Tabanus rufipes, *Meig. Zweifl.* iii. 59, 37.

18. Tabanus alpinus.

Fuscus; caput canum; antennæ luteæ, basi flavæ; abdominis latera basi fulva; pedes fulvi, tarsis anticis nigris; alæ limpidæ, basi et ad costam subfulvæ.

Tabanus alpinus, *Schrank, Faun. Boic.*
Tabanus rusticus, *Schrank, Ins. Austr.* 479, 976.
Tabanus fulvus, *Meig.*; *Macq. Exped. Scient. Alg.* 425, 31. *Zeller, Isis*, 1842, 822, 1.

Europe. North Africa.

19. Tabanus maroccanus.

Niger; antennæ ferrugineæ; thorax ferrugineo hirtus; abdomen antice maculis postice sinuatis flavis; pedes fulvi, femoribus fuscescentibus; alæ ad costam et apud venas ochraceæ.

Tabanus maroccanus, *Fabr.*

Portugal. North Africa.

20. Tabanus signatus.

Niger; thorax trivittatus; abdomen albo punctatum; pedes fusci, femoribus nigris; alæ hyalinæ, venis ex parte fusco limbatis.

Tabanus signatus, *Wied.; Meig.*

South Germany.

21. Tabanus fulvicornis.

Cinereo flavicans; antennæ fulvæ, apice fuscescentes; abdomen ferrugineum, vitta obsoleta interrupta nigra, segmentorum marginibus pallidioribus; tibiæ dimidio basali ochraceo-flavæ; alæ strigis flavescentibus.

Tabanus fulvicornis, *Meig. Zweifl.* ii. 46, 22.

Italy.

22. Tabanus umbrinus.

Niger; abdomen trifariam albo maculatum; alæ macula media fusca.

Tabanus umbrinus, *Hoffm.; Meig. Zweifl.* ii. 35, 6.

Istria.

23. Tabanus albomaculatus.

Fœm. *Niger; oculi aureo virides transversim distincte purpureo trilineati, linea medio in medio oculi; palpi sordide albidi; antennæ apud medium ferrugineæ; thoracis lineæ subquinæ abdominisque maculæ trifariam positæ, albæ, alæ submaculatæ.*

Tabanus albomaculatus, *Zett. Ins. Lapp.* 516, 9; *Dipt. Scand.* i. 116, 17.

Lapland.

24. Tabanus carbonatus.

Nigra ; antennæ articulo 3o paullo inciso ; alæ subalbidæ, apud venas paullo obscuriores.

Tabanus carbonatus, *Macq. Hist. Nat. Dipt.* i. 199, 8.

Sicily.

25. Tabanus atricornis.

Nigricans; frons fœm. *maculis duabus atris ; oculi* maris *supra cinerei, subtus purpureo-fusci,* fœm. *non vittati ; antennæ atræ ; abdomen trifariam cinereo maculatum ; tibiæ basi flavescentes ; alæ sublimpidæ, vena costali fusca.*

Tabanus atricornis, *Meig. Zweifl.* vii. 59, 47.

Germany.

26. Tabanus punctifrons.

Mas. *Nigricans, subopacus ; triangulus frontalis planus, albo cinerascens, apice nigro bipunctatus ; oculi æneï, transversim purpureo trilineati, mediocres, minus convexi ; palpi albidi ; antennæ basi ferrugineæ ; abdomen maculis trifariam positis segmentorumque apicibus tenuiter subcinereis, lateribus in utraque pagina segmentoque ventris tertio toto ferrugineis ; tibiæ obscurę ferrugineæ, anticæ apice infuscatæ ; alæ subhyalinæ, immaculatæ.*

Tabanus punctifrons, *Wahlb. Conspect. Actor. Acad. Holm.* 1848, 200, 9. *Zett. Dipt. Scand.* viii. 2939, 16, 17.

Sweden.

27. Tabanus nigerrimus.

Mas. *Ater, antennæ, palpi pedesque, toti concoloribus ; oculi æneï transversim purpureo trilineati, linea media in medio oculi ; abdomen serie media dorsali macularum trigonarum alba ; alæ nubecula obscura.*

Tabanus nigerrimus, *Zett. Dipt. Scand.* i. 115, 15.

Sweden, Norway.

28. Tabanus cordiger.

Schistaceus; antennæ nigræ; frons fœminæ *callo quadrato infero et cordiformi supero notatus; abdomen fuscescens, trifariam flavo maculatum; tibiæ flavæ, apice nigræ; alæ cinereo strigatæ.*

Tabanus cordiger, *Wied.*; *Meig. Zweifl.* ii. 47, 23. *Zeller, Isis,* 1842, 817, 4, f. 10—13.

"Oculi nudi, fascia nulla; frons inter oculos latius; abdomen cinereum, seriebus quatuor a striolis nigris crassis obliquis basi cohærentibus."—*Zeller.*

Austria.

29. Tabanus flaviceps.

Fœm. *Obscure fuscus; caput flavescens; oculi aureo virides transversim purpureo unilineati, linea in medio oculi; palpi albi; antennarum articulus ultimus basi tibiæque, testacea; abdomen trifariam fusco maculatum.*

Tabanus flaviceps, *Zett. Dipt. Scand.* i. 111; viii. 2937, 9.

Norway.

30. Tabanus nemoralis.

Nigricans; frons fœminæ *callis duobus dentatis nigris; vertex bilineolatus; thorax cinereus, subvittatus; abdomen trifariam cinereo maculatum; tibiæ albo fuscescentes, apice nigræ; alæ subcinereæ.*

Tabanus nemoralis, *Meig. Zweifl.* ii. 50, 26. *Macq. Exped. Scient. Alg. Ins.* 425, 32.

Europe. North Africa.

31. Tabanus latifrons.

Fœm. *Nigricans; oculi œnescentes non lineati; palpi albi; antennæ totæ nigræ; frons interstitio lato, callis tribus discretis nigris; thorax cinereo sublineatus; abdomen trifariam albido maculatum; tibiæ basi pallidæ.*

Tabanus latifrons, *Zett. Dipt. Scand.* i. 106, 3; viii. 2936, 3.
Tabanus atricornis, *Zett.* Fœm.?

Sweden.

32. TABANUS GLAUCUS.

Nigricans; frons fœminæ *albidus, linea media callisque duobus nigris, infero transverso; antennæ fulvæ, apice fuscæ; thorax cinereo hirtus, sublineatus; abdomen glauco micans, trifariam albido maculatum; tibiæ rufescentes, apice fuscæ; alæ hyalinæ, vix cinerascentes.*

Tabanus glaucus, *Megerle; Meig. Zweifl.* ii. 51, 28.

33. TABANUS LUNULATUS.

Nigricans; frons fœminæ *callis tribus, infero semiorbiculato; antennæ fuscæ, basi testaceæ; thorax cinereo lineatus; abdomen trifariam ferrugineo maculatum; tibiæ flavæ, apice fuscæ; alæ subcinereæ.*

Tabanus lunulatus, *Meig. Zweifl.* ii. 49, 25.

34. TABANUS GLAUCOPIS.

Nigricans; antennæ fulvæ apice fuscæ; frons maris *callo unico,* fœminæ *tribus nigris; thorax cinereo lineatus; abdomen nigro-fuscum, trifariam ferrugineo maculatum; tibiæ flavæ, apice fuscæ; alæ subcinereæ.*

Tabanus glaucopis, *Meig. Zweifl.* ii. 48, 24. *Macq. Hist. Nat. Dipt.* i. 205, 30. *Wahlb. Act. Holm.* 1838. *Zett. Dipt. Scand.* i. 108, 6; viii. 2936, 6.
Tabanus ferrugineus, *Meig. Klass. Zweifl.* i. 169, 10.
Germany. Sweden.

35. TABANUS BROMIUS.

Niger; caput flavo-album; frons fœminæ *callo quadrato lineaque nigris; antennæ fulvæ; thorax cinereo quinque vittatus; abdomen maculis trigonis fulvis trivittatum; tibiæ fulvæ; alæ subcinereæ.*

Tabanus bromius, *Linn.; Zeller, Isis,* 1842, 817, 5, f. 14—19. *Zett. Dipt. Scand.* i. 107, 5; viii. 2936, 5. *Macq. Exped. Scient. Alg. Ins.* 424, 29.

" Oculi nudi, fascia media unica, maris areolis in parte inferiore minutis; antennæ basi rufæ; abdomen cinereum, seriebus quatuor ex striolis nigris obliquis, intermediis basi subcohærentibus. Var. *α*. Striolæ nigræ abdominis dorsales cum lateralibus in basi anguste conjunctæ. Var. *β*. (detrita). Abdomen nudum nigro-cinereum, linea dorsali obsolete cinerea, maculis lateralibus rotundatis rufescentibus. Var. *γ*. ut var. *α*. sed segmenta abdominis 2um et 3um lateribus rufescente-cinereis. Var. *δ*. Paullo major; striolæ abdominales incrassatæ, cæterum ut var. *α*. Var. *ε*. Minor, striolæ abdominales incrassatæ, in basi segmentorum late conjunctæ. Var. *ζ*. Minor (detrita); abdomen cæsio-cinereum; striolæ in segmentorum 2i et 3i dorso crassæ nigræ obliteratæ binæ."—*Zeller.*

Europe. North Africa.

a—d. Interlacken, Switzerland. Presented by F. Walker, Esq.

36. Tabanus quatuornotatus.

Nigricans; frons fœminæ *callis quatuor nigris; thorax cinereo hirtus; abdomen trifariam flavicante maculatum, maculis intermediis obsoletis; tibiæ fulvæ, apice fuscæ; alæ subcinereæ.*

Tabanus quatuornotatus, *Meig. Zweifl.* ii. 51, 28.

Germany.

37. Tabanus dimidiatus.

Niger; thorax cinereo tomentosus; abdomen maculis dorsalibus trigonis pallidis, basi testaceum; tibiæ albidæ; alæ limpidæ, apud costam flavescentes.

Tabanus dimidiatus, *Meig. Zweifl.* vi. 320, 43.

Europe?

38. Tabanus borealis.

Niger; antennæ articulo 3o basi fulvo; abdomen incisuris albis; tibiæ ferrugineæ; alæ subcinereæ, ad costam fusco ferrugineæ.

Tabanus borealis, *Fabr. Spec. Ins.* ii. 459, 21; *Ent. Syst.* iv. 369, 30; *Syst. Antl.* 101, 37. *Fall. Dipt. Suec.* 6, 5. *Meig Zweifl.* ii. 37, 10. *Zett. Ins. Lapp.* 515, 5; *Dipt. Scand.* i. 113, 13.

" Var. *α*. Mas et Fœm. Niger; oculi lineis 3 in fœm. saltem distinctis; callus frontalis anticus in fœm. magnus didymus.

Var. β. Fœm. Nigricans, oculorum lineæ tres valde angustæ et tenues; callus frontalis anticus simplex. Abdomen segmentis 2o et 3o concoloribus. Var. γ. Fœm. Var. β. Similis; oculorum lineæ tres latiores. Var. δ. Fœm. Var. β. Similis; oculorum lineæ 1a et 3a obsoletæ, media tantum distincta; antennarum articulus 3us fulvus; abdominis latera maculis utrinque duabus ferrugineis; incisuræ anguste albidæ. Var. ε. Var. α. Similis; abdominis latera non ferrugineæ."—*Zett.*

North Europe.

39. Tabanus lateralis. (Nomen bis lutum.)

Fœm. *Niger; caput canum callo frontali nigro; thorax maculis quatuor lateralibus fulvis abdomen maculis dorsalibus albis, vittisque duabus lateralibus undulatis glaucis; pedes fulvi; alæ subcinereæ ad costam fuscæ.*

Tabanus lateralis, *Brullé, Exped. Scient. de Morée, 3me Sér. Zool.* pl. 47, f. 2.

Greece.

40. Tabanus bovinus.

Nigro-fuscus; caput flavo-album; antennæ basi fulvæ; thorax cinereo quinquevittatus; abdomen maculis trigonis cinereis univittatum, segmentorum marginibus posticis fulvis; pedes fusci, tibiis flavis; alæ subcinereæ, basi et ad costam fulvæ.

Tabanus bovinus, *Linn. Fall. Dipt. Suec.* tab. 4, 1. *Macq. Dipt. Nord. Fr.* tab. 155, 6, pl. 3, f. 7. *Dahlb. Ins. Skad. O. Nytl.* 306, 203. *Zett. Dipt. Scand.* i. 105, 1; viii. 2936, 1. *Zeller, Isis,* 1842, 814, 1, f. 2—4. *Macq. Exped. Scient. Alg. Ins.* 424, 28.

"Oculi nudi, maris areolis minutissimis subæqualibus; abdomen lateribus rufescens, segmentorum basi fusca, serie triangulorum flavescentium elongatorum dorsali nigro cincta; femora extus flavo pilosa. Var. α. Thorax cinereus. Var. β. Thorax cæsius."—*Zeller.*

Europe. North Africa.

a, b. Interlacken, Switzerland. Presented by F. Walker, Esq.

41. Tabanus auripilus.

Niger; thorax nigro hirtus; abdominis incisuræ fulvo ciliatæ; pedes fulvo hirti; alæ subcinereæ, venis transversis infuscatis.

Tabanus auripilus, *Meig. Zweifl.* ii. 41, 15. *Zett. Ins. Lapp.* 511. 3; *Dipt. Scand.* i. 109, 8. *Zeller, Isis*, 1842, 821, 3.

a. Interlacken, Switzerland. Presented by F. Walker, Esq.

42. Tabanus autumnalis.

Nigro-fuscus; caput flavo-album; thorax cinereo quinque vittatus; abdomen e maculis canis quinque vittatum; tibiæ flavæ, apice nigræ; alæ cinereæ.

Tabanus autumnalis, *Linn. Zeller, Isis*, 1842, 816, 3, f. 9. *Zett. Dipt. Scand.* i. 106, 2; viii. 2936, 2. *Macq. Exped. Scient. Alg.* 424, 27.

"Oculi nudi, fascia nulla, maris plaga triangulari ex areolis magnis composita; frons inter oculos angusta; antennæ nigræ; abdomen cinereum, maris lateribus ferrugineis, seriebus quatuor ex striolis crassis nigris obliquis intermediis basi cohærentibus."—*Zeller.*

Europe. North Africa.

43. Tabanus lugubris.

Mas. *Ater; oculi dimidio superiori viridi, inferiori subferrugineo, transversim purpureo trilineati, linea prima in medio oculi; palpi nigri; abdominis segmenta margine tenuiter, serieque media dorsali macularum trigonarum, albis; alæ immaculatæ.*

Tabanus lugubris, *Zett. Ins. Lapp.* 515, 6; *Dipt. Scand.* i. 114, 14.

Norway, Lapland.

44. Tabanus lapponicus.

Nigricans, subnitidus; frons albo cinerascens; oculi æneï, transversim purpureo trilineati; palpi nigricantes; antennæ fulvæ apice infuscata; abdomen serie media macularum trigonarum segmentorumque apicibus tenuiter albidis, lateribus supra anguste ferrugineis, ventre nigro; tibiæ obscure ferrugineæ, anticæ apice late nigræ; alæ immaculatæ.

Tabanus lapponicus, *Wahlb. Conspect. Actor. Reg. Acad. Holm.* 1848, 199, 9. *Zett. Dipt. Scand.* viii. 2938, 17.

Lapland.

45. Tabanus luridus.

Niger ; antennæ articulo 3o ferrugineo apice nigro ; thorax cinereo subtrivittatus ; abdomen maculis canis univittatum, lateribus antericribus fulvis ; tibiæ fulvæ ; alæ cinereæ, basi et ad costam fuscescentes.

Tabanus luridus, *Fall.*

46. Tabanus solstitialis.

Niger ; antennæ ferrugineæ, apice nigræ ; thorax cinereo subtrivittatus ; abdomen maculis canis univittatum, lateribus anterioribus fulvis ; tibiæ fulvæ, antice dimidio apicali fusco ; alæ cinereæ, basi et ad costam fuscescentes.

Tabanus solstitialis, *Meig.*

47. Tabanus tropicus.

Niger ; caput flavo-album , antennæ ferrugineæ, apice obscuriores ; thorax cinereo subtrivittatus ; abdomen fulvum, maculis trigonis flavis univittatum ; tibiæ fulvæ ; alæ cinereæ, basi et ad costam fulvæ.

Tabanus tropicus, *Linn. Westw. Duncans's Libr. Nat. Hist.* 328, pl. 34, f. 2.

a. Interlacken, Switzerland. Presented by F. Walker, Esq.

48. Tabanus austriacus.

Niger ; thorax sublineatus ; abdomen segmento 1o *punctis tribus, reliquis unico albis ; tarsi antici* maris *fasciculati ; alæ subcinereo fuscæ.*

Tabanus austriacus, *Fabr.*

49. Tabanus albipes.

Niger; thorax et abdomen basi cinereo villosa; tibiæ albæ; alæ cinereo-fuscescentes, basi flavescentes.

Tabanus albipes, *Fabr.*

South Germany. France.

50. Tabanus spodopterus.

Niger; thorax albido trilineatus; abdomen badium, serie maculaturum albarum; tibiæ fuscæ; alæ fusco-cinereæ.

Tabanus spodopterus, *Wied. Meig. Zweifl.* ii. 46, 21.

Austria.

51. Tabanus aterrimus.

Ater, nitidus; alæ subfuscescentes, ad costam fuscæ.

Tabanus aterrimus, *Meig. Zweifl.* ii. 33, 3.

52. Tabanus apricus.

Niger; antennæ nigro-fuscæ, articulo 3o subtus ferrugineo; abdominis incisuræ albido villosæ; tibiæ albidæ; alæ subfuscescentes, ad costam obscuriores.

Tabanus apricus, *Meig. Zweifl.* ii. 37, 9.

53. Tabanus ferrugineus.

Ferrugineus; antennæ apice fuscæ; thoracis dorsum fuscum; abdomen antice maculis postice fasciis nigris; pedes nigro-fusci, tibiis fulvis apice fuscis; alæ subfuscescentes, ad costam ferrugineæ.

Tabanus ferrugineus, *Meig. Klass.* 166; *Zweifl.* ii. 60, 38.

54. Tabanus bimaculatus.

Fœm. *Niger; fasciis cinereis; antennarum articulus 3us fulvus, apice niger; thorax subvittatus; abdominis segmenta 1um et 2um macula laterali fulva; tibiæ fulvæ; alæ subfuscescentes, ad costam flavæ.*

Tabanus bimaculatus, *Macq. Dipt. Nord. Fr. Tab.* 163, 17. *Meig. Zweifl.* vii. 46.

North France.

55. Tabanus Tarandinus.

Niger; antennæ fulvæ; abdomen fasciis aureo-flavis; pedes fulvi; alæ subfuscescentes, ad costam et apud venas flavo-fuscæ.

Tabanus Tarandinus, *Linn. Dahlb. Ins. Nytta och Skada*, 306, 204. *Zett. Ins. Lapp.* 513, 2; *Dipt. Scand.* i. 109, 7; viii. 2937, 7.

Lapland.

56. Tabanus istriensis.

Niger; thorax canescens; abdomen albo fasciatum; alæ fusco nubeculosæ.

Tabanus istriensis, *Megerle; Meig. Zweifl.* ii. 36, 8.
Tabanus umbrinus, Var.?

Istria?

57. Tabanus carbonarius.

Ater; oculi villosi; alæ fuscæ.

Tabanus carbonarius, *Meig. Zweifl.* ii. 33, 2. *Macq. Dipt. Exot* i. 2, 182; *Exped. Scient. Alg. Ins.* 422, 20.

Europe. North Africa.

58. Tabanus morio.

Ater, nitidus; thorax cinereus; abdomen apice albo villosum; alæ fuscæ.

Tabanus morio, *Fabr. Dum. Cons. Gén. Ins.* pl. 40, f. 9. *Macq. Exped. Scient. Alg.* 422, 19.

South France. Italy. Hungary. North Africa.

59. Tabanus maculipennis.

Fœm. *Niger; alæ fuscæ, vitta interrupta discali ad apicem diffusa limpida.*

Tabanus maculipennis, *Brullé, Exped. Atlas Scient. de Morée, 3me Sér. Zool.* pl. 47, f. 3.

Greece.

60. Tabanus fuscatus.

Mas. *Ater, nitidus; antennarum articulus 3us basi testaceus; thorax cinereus; abdomen segmenti 2i lateribus anoque albo hirtis; alæ fuliginosæ; areolæ nonnullæ discis pallidioribus.*

Tabanus fuscatus, *Macq. Dipt. Nord. Fr. Tab.* 152, 2; *Meig. Zweifl.* vii. 59, 45.

North France.

61. Tabanus anthracinus.

Niger; abdomen lateribus obscure fuscescentibus, segmentis albo trimaculatis; pedes nigro-picei; alæ flavo fuscescentes.

Tabanus anthracinus, *Hoffm.; Meig. Zweifl.* ii. 36, 7.
Tabanus umbrinus, *Mas.?*

Naples.

North America.

62. Tabanus imitans.

Tabanus imitans, *Cat. of Diptera*, Pt. 1, 146.

63. Tabanus confusus.

Tabanus confusus, *Cat. of Diptera*, Pt. 1, 147.

64. TABANUS RECEDENS.

Tabanus recedens, *Cat. of Diptera*, Pt. 1, 147.

65. TABANUS PROXIMUS.

Tabanus proximus, *Cat. of Diptera*, Pt. 1, 147.

66. TABANUS CATENATUS.

Tabanus catenatus, *Cat. of Diptera*, Pt. 1, 148.

Var.? Red. Head and thorax with white tomentum and down. Antennæ tawny. Thorax with two piceous stripes. Abdomen piceous, with white bloom; hind borders of the segments reddish. Fore femora with a black stripe; hind tibiæ black, and clothed with black hairs on the outer side; tarsi black. Wings gray; veins tawny; first branch of the cubital vein simple. Subanal vein joining the anal far from the border. Length of the body 9½ lines; of the wings 19 lines.

a. ———? From Mr. Stephens' collection.

67. TABANUS DERIVATUS.

Tabanus derivatus, *Cat. of Diptera*, Pt. 1, 156.

68. TABANUS TARANDI.

Tabanus Tarandi, *Cat. of Diptera*, Pt. 1, 156.

69. TABANUS NOTABILIS.

Tabanus notabilis, *Cat. of Diptera*, Pt. 1, 166.

70. TABANUS FULVESCENS.

Tabanus fulvescens, *Cat. of Diptera*, Pt. 1, 171.

71. TABANUS COMES.

Tabanus inscitus (nomen bis lectum), *Cat. of Diptera*, Pt. 1, 172.

72. TABANUS FRONTALIS.

Tabanus frontalis, *Cat. of Diptera*, Pt. 1, 172.

73. TABANUS INTERMEDIUS.

Tabanus intermedius, *Cat. of Diptera*, Pt. 1, 173.

74. TABANUS DUPLEX.

Tabanus imitans (nomen bis lectum), *Cat. of Diptera*, Pt. 1, 173.

75. TABANUS LEUCOMELAS.

Tabanus leucomelas, *Cat. of Diptera*, Pt. 1, 175.

76. TABANUS SCITUS.

Tabanus scitus, *Cat. of Diptera*, Pt. 1, 181.

77. TABANUS FULVOFRATER.

Tabanus fulvofrater, *Cat. of Diptera*, Pt. 1, 181.

78. TABANUS SIMULANS.

Tabanus simulans, *Cat. of Diptera*, Pt. 1, 182.

79. TABANUS VICARIUS.

Tabanus vicarius, *Cat. of Diptera*, Pt. 1, 187.

80. TABANUS MUTATUS.

Tabanus mutatus, *Diptera Saundersiana*, Pt. 1, 23.

81. TABANUS CONTERMINUS.

Tabanus conterminus, *Diptera Saundersiana*, Pt. 1, 24.

82. TABANUS ERYTHROTELUS.

Tabanus erythrotelus, *Diptera Saundersiana*, Pt. 1, 25, pl. 2, f. 1.

83. TABANUS RUFOFRATER.

Tabanus rufofrater, *Diptera Saundersiana*, Pt. 1, 26.

84. TABANUS INCISUS.

Tabanus incisus, *Diptera Saundersiana*, Pt. 1, 26.

85. TABANUS SCUTELLARIS.

Tabanus scutellaris, *Diptera Saundersiana*, Pt. 1, 27.

A. Corpus omnino nigrum.
  A. Alæ maculatæ. - - - nigrescens, *Pal. Beauv.*
  B. Alæ non maculatæ.
    A. Alæ nigræ. - - - - - lugubris, *Macq.*
    B. Alæ fusco-nigræ. - - - - ater, *Pal. Beauv.*
B. Thorax niger.
  A. Abdomen canescens. - - - - atratus, *Fabr.*
  B. Abdomen maculis tribus albis. - - - trispilus, *Wied.*
  C. Abdomen incisuris albis. - - - nigripes, *Wied.*
  D. Abdomen trifariam albido maculatum. pumilus, *Macq.*
  E. Abdomen fasciis flavo pilosis. - - flavipes, *Wied.*
  F. Abdomen maculis dorsalibus incisurisque albis. coffeatus, *Macq.*
  G. Abdomen cinereum, lateribus fulvis vittisque duabus nigris. nigrovittatus, *Macq.*
  H. Abdomen lateribus anticis et incisuris fulvis. vicinus, *Macq.*
  I. Abdominis latera gambogia. - - fumipennis, *Wied.*
  J. Abdomen lateribus fasciisque fulvis. - dorsonotatus, *Macq.*
  K. Abdomen maculis dorsalibus incisurisque albidis; segmenta 1o ad 4um lateribus fulvis. - - Carolinensis, *Macq.*

L. Abdomen lateribus et incisuris testaceis. incisuralis, *Macq.*
M. Abdomen lateribus, maculis dorsalibus et incisuris fulvis. punctipennis, *Macq.*
N. Abdomen segmentis tribus anticis luteis. - cinctus, *Fabr.*
O. Abdomen fulvum, fascia dorsali nigra. lasiophthalmus, *Macq.*
C. Thorax fusco nigricans. - - - - marginalis, *Fabr.*
D. Thorax fuscus, cinereus, rubidus, aut pallidus.
A. Alæ immaculatæ.
A. Abdomen maculis exceptis obscurum, unicolor.
a. Antennæ pallidæ aut fuscæ.
i. Abdomen non vittatum.
* Abdomen lactescens. - - - validus, *Wied.*
** Thorax testaceus. Abdomen fuscum cæruleo pubescens. - - - - pubescens, *Macq.*
*** Abdomen nigrum.
† Alæ fuscæ. - - - - lineatus, *Fabr.*
†† Alæ limpidæ. - - - exæstuans, *Linn.*
ii. Abdomen vittatum.
* Abdomen vittis duabus macularibus. ruficornis, *Fabr.*
** Abdomen vittis tribus macularibus. crassicornis, *Wied.*
*** Abdomen univittatum.
† Abdomen non fasciatum. - calens, *Linn.*
†† Abdomen fasciis testaceis. Novæ Scotiæ, *Macq.*
††† Abdomen fasciis albis. - trijunctus, *Walk.*
b. Antennæ nigræ.
i. Alæ limpidæ. - - - melanocerus, *Wied.*
ii. Alæ fuscescentes. - - - - guttatus, *Meig.*
B. Abdomen incisuris albis. - - - nanus, *Macq.*
C. Abdomen fasciis pallidis. - - cingulatus, *Macq.*
D. Abdomen lateribus, aut basi, aut omnino pallidum.
a. Abdominis latera pallida.
i. Alæ ferrugineæ. - - - - rufus, *Pal. Beauv.*
ii. Alæ subflavescentes. - - - bicolor, *Macq.*
iii. Alæ cinereo-fuscæ. - - - triligatus, *Walk.*
iv. Alæ limpidæ.
* Abdomen univittatum.
† Femora ferruginea. - - - bicolor, *Wied.*
** Abdomen trivittatum. - - lineola, *Fabr.*
b. Abdomen omnino pallidum.
i. Abdomen non vittatum. - - pallidus, *Pal. Beauv.*
ii. Abdomen trivittatum. - - fulvulus, *Wied.*
* Abdomen trifariam albo maculatum.
** Abdomen vitta maculisque utrinque flavidis. costalis, *Wied.*

c. Corpus omnino testaceum.
i. Alæ apud costam limpidæ. - - unicolor, *Macq.*
ii. Alæ apud costam flavæ. - - - flavus, *Macq.*
B. Alæ fusco maculatæ aut vittatæ.
A. Abdomen rufum aut fuscum.
a. Antennæ *maris* luteæ aut fuscæ, *fœm.* fuscæ.
i. Abdomen vitta maculari alba.
* Antennæ unicolores. - - - abdominalis, *Fabr.*
** Antennæ articulo 3o basi pallido. gracilis, *Wied.*
*** Antennæ articulo basi apiceque pallido. molestus, *Say.*
ii. Abdomen vitta maculari flavida. - turbidus, *Wied.*
b. Antennæ nigro-fuscæ.
i. Alæ postice fusco limbatæ. - variegatus, *Fabr.*
ii. Alæ non fusco limbatæ. - - Reinwardtii, *Wied.*
B. Abdomen nigrum, lateribus maculisque dorsalibus fulvis. punctipennis, *Macq.*
C. Abdomen nigrum.
a. Abdomen non vittatum. - - - stygius, *Say.*
b. Abdomen vitta maculari. - trimaculatus, *Wied.*
D. Abdomen nigrum, albido trivittatum. quinquelineatus, *Macq.*

86. Tabanus nigrescens.

Nigro-violaceus; antennæ articulo 3o basi flavo; alæ obscuræ, maculis tribus fuscis.

Tabanus nigrescens, *Pal. Beauv. Ins.* 100, pl. 2, f. 2. *Wied. Auss. Zweifl.* i. 116, ♂.

North America.

87. Tabanus lugubris.

Mas. *Niger; alæ nigræ.*

Tabanus lugubris, *Macq. Dipt. Exot.* i. 1, 144, 48.

Carolina.

88. Tabanus ater.

Ater; alæ fusco-nigræ.

Tabanus ater, *Pal. Beauv. Ins.* pl. 2, f. 5. *Wied. Dipt. Exot.* i. 74, 23; *Auss. Zweifl.* i. 136, 39.

North America.

89. Tabanus atratus.

Niger; abdomen canescens; alæ fusco-nigræ.

Tabanus atratus, *Fabr. Macq. Dipt. Exot.* i. 1, 142, 41.
Tabanus niger, *Pal. Beauv. Ins.* 54, pl. 1. f. 1.

North America. Mexico.

90. Tabanus trispilus.

Fuliginoso-niger, nitens; antennæ medio rufæ; abdomen maculis tribus albis; alæ fuscæ.

Tabanus trispilus, *Wied.*

United States.

91. Tabanus nigripes.

Nigellus; abdomen incisuris albidis; alæ limpidæ; pedes nigri.

Tabanus nigripes, *Wied. Dipt. Exot.* i. 75, 24; *Auss. Zweifl.* i. 142, 50.
Tabanus exæstuans, Var.?

North America.

92. Tabanus pumilus.

Fœm. *Niger; antennæ fulvæ, basi apiceque fuscæ; abdomen trifariam albido maculatum; pedes fusco-fulvi; alæ hyalinæ, venæ cubitalis ramus 1us sæpe furcatus.*

Tabanus pumilus, *Macq. Dipt. Exot.* i. 1, 146, 51.

Carolina.

Allied to *T. bromius.*

93. Tabanus flavipes.

Niger; abdomen fasciis flavo pilosis; pedes ferruginei; tarsis anticis atris.

Tabanus flavipes, *Wied. Auss. Zweifl.* i. 137, 40.

Labrador. Nova Scotia.

94. Tabanus coffeatus.

Fuscus; thorax niger; abdomen maculis dorsalibus incisurisque albis; pedes nigricantes, tibiis fuscis; alæ cinereæ.

Tabanus coffeatus, *Macq. Dipt. Exot. Suppl.* 2, 23, 109.
Philadelphia.

95. Tabanus nigrovittatus.

Fœm. *Niger; antennæ fulvæ, apice nigræ; abdomen cinereum, lateribus fulvis vittisque duabus nigris; pedes fulvi; alæ hyalinæ.*

Tabanus nigrovittatus, *Macq. Dipt. Exot. Suppl.* 2, 24, 111.
Nova Scotia.

96. Tabanus vicinus.

Fœm. *Niger; antennæ articulo 3o fulvo, apice nigro; abdominis latera antica et incisuræ tibiæque fulva.*

Tabanus vicinus, *Macq. Dipt. Exot.* i. 1, 143, 44.
Carolina.

Allied to *T. luridus.*

97. Tabanus fumipennis.

Niger, flavo hirtus; antennæ et pedes ferruginea; abdominis latera gambogia.

Tabanus fumipennis, *Wied.*
North America.

98. Tabanus dorsonotatus.

Mas. *Niger; antennæ basi testaceæ; abdominis latera fasciæque tibiæque fulva, femora nigricantia; tibiæ anticæ basi albidæ; tarsi fusci; alæ cinereæ.*

Tabanus dorsonotatus, *Macq. Dipt. Exot. Suppl.* 2, 22, 106.
Carolina.

99. Tabanus Carolinensis.

Mas. *Niger; antennæ fulvæ, basi cinereæ, apice nigræ; abdomen maculis dorsalibus incisurisque albidis, segmentorum 1o ad 4um lateribus fulvis; tibiæ fulvæ; alæ hyalinæ, basi et ad costam subfulvæ.*

Tabanus Carolinensis, *Macq. Dipt. Exot.* i. 1, 145, 47.
Carolina.

100. Tabanus incisuralis.

Niger; antennæ, abdominis latera et incisuræ pedesque testacea; alæ limpidæ, ad costam flavescentes; venæ cubitalis furca antica ramulum demittens.

Tabanus incisuralis, *Macq. Dipt. Exot. Suppl.* 2, 21, 104.
America.

101. Tabanus punctipennis.

Niger; antennæ testaceæ, apice nigræ; abdominis latera, maculæ dorsales et incisuræ, tarsi posteriores, femora basi et tibiæ fulva; alæ fusco punctatæ.

Tabanus punctipennis, *Macq. Dipt. Exot. Suppl.* 2, 23, 108.
Philadelphia.

102. Tabanus cinctus.

Niger; abdominis segmenta tria antica lutea; alæ nigræ.

Tabanus cinctus, *Fabr. Ent. Syst.* iv. 366, 18; *Syst. Antl.* 97, 20. *Meig. Zweifl.* 71, 42, 16; vi. 320. *Wied. Dipt. Exot.* i. 67, 10; *Auss. Zweifl.* i. 119, 12.
Virginia.

103. Tabanus lasiophthalmus.

Fœm. *Niger; oculi hirsuti; abdomen fulvum, fascia dorsali nigra; pedes fulvi, tarsis nigricantibus; alæ subcinereæ, fusco maculatæ.*

Tabanus lasiophthalmus, *Macq. Dipt. Exot.* i. 1, 143, 45.
Carolina.

104. TABANUS MARGINALIS.

Fusco-nigricans; thorax albido trivittatus; abdomen trifariam nigro maculatum; tibiæ albidæ.

Tabanus marginalis, *Fabr.*
North America.

105. TABANUS VALIDUS.

Coccinelleo-rubidus; abdomen lactescens; alæ fuscæ.

Tabanus validus, *Wied.*
North America.

106. TABANUS PUBESCENS.

Testaceus; abdomen fusculm cæruleo pubescens; pedes nigri, tibiis testaceis; alæ flavidæ.

Tabanus pubescens. *Macq. Dipt. Exot. Suppl.* 2, 20, 103.
America.

107. TABANUS LINEATUS.

Fuscus, ferrugineo lineatus; antennæ rubidæ; abdomen nigrum; alæ fuscanæ.

Tabanus lineatus, *Fabr.*
North America.

108. TABANUS EXÆSTUANS.

Cinereus; oculi virides; abdominis segmenta albo marginata; alæ hyalinæ; tibiæ albæ, apice nigræ.

Tabanus exæstuans, *Linn. Syst. Nat.* ii. 1000, 8. *Fabr. Ent. Syst.* iv. 365, 13; *Syst. Antl.* 96, 12. *Wied. Auss. Zweifl.* i. 143, 56.
Tabanus fuscus, *Deg. Ins.* vi. 229, 8, pl. 30, f. 5.
North America?

109. Tabanus annulatus.

Dilute rubens; thorax albido pruinosus; abdominis incisuræ tibiæque albæ; alæ limpidæ.

Tabanus annulatus, *Say, Journ. Acad. Philad.* iii. 32, 2. *Wied. Auss. Zweifl.* i. 185, 111.

Missouri.

110. Tabanus ruficornis.

Obscure coccinelleus; abdomen utrinque maculis transversis albis; alæ sublimpidæ, costa fusca.

Tabanus ruficornis, *Fabr.*

North America.

111. Tabanus crassicornis.

Rubido-fuscus; thorax obsolete fulvido vittatus; abdomen tri-fariam albo maculatum; alæ flavidæ.

Tabanus crassicornis, *Wied. Dipt. Exot.* i. 71, 18; *Auss. Zweifl.* i. 130, 29.

America.

112. Tabanus calens.

Fuscus; antennæ obscure rufæ apice fuscæ; thorax cinereo sublineatus; abdomen basi cinerascens, linea dorsali alba; tibiæ basi albæ.

Tabanus calens, *Linn.*

North America.

113. Tabanus Novæ Scotiæ.

Fœm. *Testaceus; antennæ fulvæ apice nigræ; thorax vittis nigris; abdomen nigricans, fasciis testaceis, maculis dorsalibus albidis; pedes fulvi; alæ flavidæ.*

Tabanus Novæ Scotiæ, *Macq. Dipt. Exot. Suppl.* 2, 24, 110.

Nova Scotia.

114. Tabanus trijunctus.

Fœm. *Ferrugineus; antennæ rufescentes, dilatatæ non furcatæ apice fuscescentes; thorax cano quinquevittatus; scutellum nigrum, ferrugineo marginatum; abdomen nigrum, segmentorum marginibus posticis maculisque dorsalibus trigonis albis, basi ferrugineum nigro vittatum; pedes rufescentes, femoribus anticis nigris; alæ cinereæ, antice ferrugineæ, areolis nonnullis hyalino strigatis, venis transversis nigro marginatis.*

Very nearly allied to *T. variegatus*, but distinct. *Fem.* Ferruginous. Head with whitish testaceous tomentum and down. Palpi and antennæ reddish; first and second joints of the antennæ dilated above and forming horns; third dilated and forming a slightly acute angle; tips brownish. Thorax with five hoary stripes. Pectus hoary. Scutellum black; hind border ferruginous. Abdomen black, ferruginous towards the base, excepting a dorsal stripe; on the hind border of each segment a white band, which is dilated in the middle above into a triangle. Legs reddish; tips of the tarsi brown; fore femora black. Wings dark gray, ferruginous in front; disks of some of the areolets with almost limpid streaks; transverse veins clouded with black; first branch of the cubital vein simple, clouded at the base; second branch converging towards the externo-medial vein; subanal vein joining the anal at some distance from the border. Length of the body 7 lines; of the wings 15 lines.

a, *b*. Florida. Presented by E. Doubleday, Esq.

115. Tabanus melanocerus.

Fuscus; thorax vittis quinque; abdomen vitta e maculis trigonis et tibiæ basi albæ.

Tabanus melanocerus, *Wied.*

Kentucky. British North America.

116. Tabanus guttatus.

Lilacino-rubidus, albido vittatus; abdomen fuscum, trifariam albo maculatum; tibiæ albæ.

Tabanus guttatus, *Megerle. Wied. Dipt. Exot.* i. 73, 20; *Auct. Zweifl.* i. 133, 34.

America.

117. Tabanus nanus.

Mas. *Cinereus; antennæ nigræ, basi fulvæ; thorax albo quinquevittatus; abdomen incisuris albis; pedes fulvi; alæ hyalinæ venæ cubitalis ramo 1o furcato.*

Tabanus nanus, *Macq. Dipt. Exot. Suppl.* 1, 42, 88.

118. Tabanus cingulatus.

Fœm. *Antennæ rufæ, apice nigræ denteque elongato; thorax fulvus nigro trivittatus; abdomen fuscum flavo fasciatum; pedes fulvi; alæ subhyalinæ, venis fulvo marginatis.*

Tabanus cingulatus, *Macq. Dipt. Exot.* i. 1, 144, 46.

Philadelphia.

119. Tabanus rufus.

Luteo-rufescens; antennæ flavæ; abdomen segmentis sex ultimis medio fuscis; alæ ferrugineæ.

Tabanus rufus, *Pal. Beauv.*

North America.

120. Tabanus bicolor. (Nomen bis lectum.)

Testaceus; abdomen nigrum, lateribus maculis incisurisque testaceis; alæ subflavescentes; tibiæ posticæ tarsique nigra.

Tabanus bicolor, *Macq. Dipt. Exot. Suppl.* 2, 21, 105.

South Carolina.

121. Tabanus triligatus.

Fusco-niger; caput cano tomentosum; antennæ basi rufæ; thorax cano quinquevittatus; abdomen luteo fulvum vitta dorsali interrupta nigra, segmentorum marginibus posticis testaceo trimaculatis; tarsi posteriores basi, femora apice tibiæque fulva; alæ cinereo-fuscæ, subfasciatæ.

Very nearly allied to *T. dorsonotatus* and to some of the neighbouring species, also to the European *T. Græcus*. *Fem.* Brownish

black. Head clothed with hoary tomentum and down, more than twice broader than long. Palpi testaceous, brownish above, except at the base. First and second joints of the antennæ red; third red towards the base, its horn small, forming a nearly right angle. Thorax brownish black, clothed on each side with black hairs; five dorsal hoary stripes, and a tawny callus before each wing. Abdomen luteous tawny, with a black stripe, which is dilated at the base and at the tip, and is interrupted on the hind border of each segment; three testaceous spots on the hind border of each segment. Tibiæ, posterior tarsi towards the base and tips of the femora tawny; hind tibiæ with a short fringe of black hairs on the outer side. Wings grayish brown, with a slight darker brown band across the base of the discal areolet. Stigma dark brown; veins black; first branch of the cubital vein simple, forming a slightly obtuse angle near its base; subanal vein joining the anal at some little distance from the border. Halteres tawny, black towards the tips, which are testaceous. Length of the body 6—7 lines; of the wings 13—15 lines.

a—f. Arctic America. Presented by Sir John Richardson.
g—h. ——— ?

122. Tabanus bicolor.

Glauco-olivaceus; antennæ, pedes et abdomen ferruginea, hoc vitta olivacea.

Tabanus bicolor, *Wied. Dipt. Exot.* i. 96, 58; *Auss. Zweifl.* i. 188, 115.

North America.

123. Tabanus lineola.

Niger; thoracis latera ochracea; abdomen albo trivittatum, lateribus melleis; tibiæ ferrugineæ; alæ limpidæ.

Tabanus lineola, *Fabr. Macq. Dipt. Exot.* i. 1, 146, 49.

Eyes of the male hairy, of the female bare.

North America.

124. Tabanus pallidus.

Testaceus, subtus albido pilosus; thoracis maculæ et scutellum fusca; alæ obscuræ, immaculatæ.

Tabanus pallidus, *Pal. Beauv. Ins.* 100, pl. 2, f. 3. *Wied. Auss. Zweifl.* i. 118, 9.

North America.

125. Tabanus fulvulus.

Glaucus, fulvo pilosus; abdomen rubidum, trifariam fulvo maculatum; alæ limpidæ.

Tabanus fulvulus, *Wied. Auss. Zweifl.* i. 153, 66.

America?

126. Tabanus costalis.

Glauco-fuscanus, fulvo hirtus; abdomen ferruginosum vitta maculisque utrinque flavidis; alæ limpidissimæ areola costali flava.

Tabanus costalis, *Wied. Auss. Zweifl.* i. 173, 94. *Macq. Dipt. Exot.* i. 1, 146, 50.

Kentucky.

127. Tabanus unicolor.

Fœm. *Testaceus; alæ hyalinæ, areolis duabus basi fuscanis.*

Tabanus unicolor, *Macq. Dipt. Exot. Suppl.* 2, 22, 107.

Carolina.

128. Tabanus flavus.

Fulvo-flavus; frons viridis; facies gutta fuscescente; alæ hyalinæ, costa flava, venæ cubitalis ramo 1o simplici basi quadrato puncto fuscescente; tarsorum articuli apice fuscescente.

Tabanus flavus, *Macq. Hist. Nat. Dipt.* i. 200, 13.

United States.

129. TABANUS ABDOMINALIS.

Lilacino-fuscanus; abdomen albo maculatum; alæ fusco maculatæ.

Tabanus abdominalis, *Fabr.*

North America.

130. TABANUS GRACILIS.

Lilacino-fuscanus; thorax vittis; abdomen vitta maculari incisurisque albis; alæ venis fuscano limbatis.

Tabanus gracilis. *Wied.*

North America.

131. TABANUS MOLESTUS.

Lilacino-fuscanus; thorax albido pruinosus; abdomen vitta e maculis trigonis albis; alæ venis transversis fusco limbatis.

Tabanus molestus, *Say.*

North America.

132. TABANUS TURBIDUS.

Rubidus; thorax albido vittatus; abdomen vitta maculari flavida; alæ subturbidæ, venis fuscano limbatis.

Tabanus turbidus, *Wied.*

North America.

133. TABANUS VARIEGATUS.

Lilacino-rubidus; abdomen badium, albo maculatum, margine interno fusco limbato.

Tabanus variegatus, *Fabr.*

North America.

134. Tabanus Reinwardtii.

Schisticolor; thorax rubido vittatus; abdomen rubens, vittis maculatis albis; alæ fusco maculatæ.

Tabanus Reinwardtii.

North America.

135. Tabanus punctipennis.

Niger; antennæ testaceæ, apice nigræ; abdomen lateribus maculis dorsalibus incisurisque fulvis; pedes fulvi, femoribus tibiisque apice tarsisque nigris; alæ limpidæ.

Tabanus punctipennis, *Macq. Dipt. Exot. Suppl.* 2, 23, 108.

Philadelphia.

136. Tabanus stygius.

Rubidus; abdomen nigrum; alæ flavidæ, punctis duabus fuscis; pedes fusci tibiis ferrugineis.

Tabanus stygius, *Say.*

North America.

137. Tabanus trimaculatus. (Nomen bis lectum.)

Fuscus; thorax albido bivittatus; abdomen nigrum, maculis tribus albis; tibiæ albæ; alæ hyalinæ, venis transversis fusco limbatis.

Tabanus trimaculatus, *Wied. Auss. Zweifl.* i. 132, 33.

America?

138. Tabanus quinquelineatus.

Fuscus; antennæ nigræ; thorax albido quinquevittatus; abdomen nigrum, e maculis albis trivittatum; pedes nigri; alarum venæ fusco limbatæ.

Tabanus quinquelineatus, *Macq. Hist. Nat. Dipt.* i. 200, 11.

Georgia.

Mexico.

A. Abdomen fulvo trivittatum. - - - 5-vittatus, *Wied.*
B. Abdomen albido univittatum. - - circumfusus, *Wied.*
C. Abdomen fulvum, apice nigrum. - - apicalis, *Macq.*
D. Abdomen testaceum. - - - - - ruber, *Macq.*

139. TABANUS QUINQUEVITTATUS.

Fuscus; thorax fulvo hirtus; abdomen saturatius, vittis tribus marginibusque lateralibus fulvo hirtis.

Tabanus quinquevittatus, *Wied. Dipt. Exot.* i. 84, 39; *Auss. Zweifl.* i. 173, 93.

140. TABANUS CIRCUMFUSUS.

Fuscanus; abdomen vitta maculari albida; alæ fuscanæ, gutta, incisuris marginis interni apicisque limpidis.

Tabanus circumfusus, *Wied. Auss. Zweifl.* ii. 624, 21.

141. TABANUS APICALIS.

Niger; abdomen latum, depressum, fulvum, apice nigrum; alæ fuscæ.

Tabanus apicalis, *Macq. Dipt. Exot. Suppl.* 2, 20, 102.

142. TABANUS RUBER.

Fœm. *Testaceus; thorax fuscus; tarsi nigri; alæ fuscæ.*

Tabanus ruber, *Macq. Dipt. Exot. Suppl.* i. 42, 87.

West Indies.

143. TABANUS COMPLETUS.

Tabanus completus, *Cat. of Diptera*, Pt. 1, 185.

144. TABANUS LUCIDULUS.

Tabanus lucidulus, *Cat. of Diptera*, Pt. 1, 188.

145. TABANUS PARALLELUS.

Tabanus parallelus, *Cat. of Diptera*, Pt. 1, 187.

146. TABANUS OBLIQUUS.

Tabanus obliquus, *Diptera Saundersiana*, Pt. 1, 28.

147. TABANUS TINCTUS.

Tabanus tinctus, *Diptera Saundersiana*, Pt. 1, 29.

148. TABANUS FERRIFER.

Tabanus ferrifer, *Diptera Saundersiana*, Pt. 1, 30.

A. Thorax rufus - - - - - parvidendatus, *Macq.*
B. Thorax fuscanus. - - - - - rufiventris, *Macq.*

149. TABANUS PARVIDENTATUS.

Fœm. *Rufus; frons maculis duabus; antennæ testaceæ, dente minimo; alæ subrufæ.*

Tabanus parvidentatus, *Macq. Dipt. Exot.* i. 1, 142, 40.
West Indies.

150. TABANUS RUFIVENTRIS.

Mas. *Antennæ testaceæ, apice nigræ; thorax fuscanus; abdomen rufum, maculis dorsalibus albidis; pedes testacei; alæ subcinereæ.*

Tabanus rufiventris, *Macq. Dipt. Exot.* i. 1, 141, 39.
Allied to *T. posticus*.
Cuba.

South America.

151. TABANUS FERREUS.

Tabanus ferreus, *Cat. of Diptera*, Pt. 1, 151.

152. TABANUS OCULUS.

Tabanus oculus, *Cat. of Diptera*, Pt. 1, 157.

153. TABANUS BIPARTITUS.

Tabanus bipartitus, *Cat. of Diptera*, Pt. 1, 158.

154. TABANUS ATTENUATUS.

Tabanus attenuatus, *Cat. of Diptera*, Pt. 1, 159.

155. TABANUS CONFINIS.

Tabanus confinis, *Cat. of Diptera*, Pt. 1, 160.

156. TABANUS TERMINUS.

Tabanus terminus, *Cat. of Diptera*, Pt. 1, 160.

157. TABANUS LIVIDUS.

Tabanus lividus, *Cat. of Diptera*, Pt. 1, 162.

158. TABANUS DIVERSIPENNIS.

Tabanus diversipennis, *Cat. of Diptera*, Pt. 1, 165.

159. TABANUS RUFITHORAX.

Tabanus rufithorax, *Cat. of Diptera*, Pt. 1, 165.

160. TABANUS PRIMITIVUS.

Tabanus primitivus, *Cat. of Diptera*, Pt. 1, 177.

161. TABANUS LATIVITTA.

Tabanus lativitta, *Cat. of Diptera*, Pt. 1, 184.

162. TABANUS ADUSTUS.

Tabanus adustus, *Diptera Saundersiana*, Pt. 1, 34.

163. TABANUS SUBMACULA.

Tabanus submacula, *Diptera Saundersiana*, Pt. 1, 30, pl. 2, f. 8.

164. TABANUS DETERSUS.

Tabanus detersus, *Diptera Saundersiana*, Pt. 1, 31.

165. TABANUS PERPLEXUS.

Tabanus perplexus, *Diptera Saundersiana*, Pt. 1, 32.

166. TABANUS BASI-RUFUS.

Tabanus basi-rufus, *Diptera Saundersiana*, Pt. 1, 32.

167. TABANUS HIRTITIBIA.

Tabanus hirtitibia, *Diptera Saundersiana*, Pt. 1, 33.

168. TABANUS SIMPLEX.

Tabanus simplex, *Diptera Saundersiana*, Pt. 1, 34.

169. TABANUS DISCIFER.

Tabanus discifer, *Diptera Saundersiana*, Pt. 1, 35, pl. 2, f. 2.

170. TABANUS PUDENS.

Tabanus pudens, *Diptera Saundersiana*, Pt. 1, 36.

171. TABANUS TRIFASCIA.

Tabanus trifascia, *Diptera Saundersiana*, Pt. 1, 37.

172. TABANUS LITIGIOSUS.

Tabanus litigiosus, *Diptera Saundersiana*, Pt. 1, 37.

173. TABANUS SUBSENEX.

Tabanus subsenex, *Diptera Saundersiana*, Pt. 1, 38.

174. TABANUS DORSIVITTA.

Tabanus dorsivitta, *Diptera Saundersiana*, Pt. 1, 39.

175. TABANUS FERRUGINOSUS.

Tabanus ferruginosus, *Diptera Saundersiana*, Pt. 1, 40.

176. TABANUS TERMINATUS.

Tabanus terminatus, *Diptera Saundersiana*, Pt. 1, 41.

177. TABANUS MANIFESTUS.

Tabanus manifestus, *Diptera Saundersiana*, Pt. 1, 41.

A. Tibiæ anticæ non incrassatæ.
  A. Tibiæ non ciliatæ.
    a. Abdomen basi triangulo non notatum.
      a. Alæ non maculatæ nec vittatæ nec fasciatæ.
        i. Corpus nigrum.
          * Scutellum nigrum.
            † Alæ subhyalinæ. - - - modestus, *Wied.*
              ‡ Antennæ rufo-flavæ.
              ‡‡ Antennæ basi testaceæ. - trifarius, *Macq.*
            †† Alæ limpidæ. - - - comitans, *Wied.*
            ††† Alæ rubiginosæ. - rubiginipennis, *Macq.*
            †††† Alæ fuscanæ. - - - flavifacies, *Macq.*

†††† Alæ cinereæ, basi et costa subfuscæ.
Valterii, *Macq.*
†††††† Alæ subcinereæ.
‡ Femora fulva. - - - chilensis, *Macq.*
‡‡ Femora nigra. - - importunus, *Macq.*
†††††† Alæ cinereæ. - - - alboater, *Walk.*
** Scutellum testaceum. - - auribarbis, *Macq.*
*** Scutellum album. - - - leucaspis, *Wied.*
ii. Corpus cinereum. - - - cinereus, *Wied.*
iii. Corpus nigro-fuscum.
* Abdomen albo trivittatum. - trivittatus, *Fabr.*
** Abdomen albo univittatum. - plangens, *Walk.*
iv. Thorax niger.
* Abdomen olivaceum. - - olivaceiventris, *Macq.*
** Abdomen nigrum.
† Abdomen basi ferrugineum. - cainnensis, *Fabr.*
†† Abdomen basi pallidum.
‡ Alæ nigræ. - - - theotænia, *Wied.*
‡‡ Alæ flavæ. - - - - tristis, *Wied.*
††† Abdomen lateribus testaceis.
‡ Alæ hyalinæ. - - - callosus, *Macq.*
‡‡ Alæ cinereæ. - - - recedens, *Walk.*
v. Thorax fuscus.
* Abdomen nigellum. - - - fuscus, *Wied.*
** Abdomen cæruleo-nigrum. - clausus, *Macq.*
*** Abdomen cinerascens. - - stigma, *Fabr.*
vi. Thorax cinereus. Abdomen ferrugineum.
viduus, *Walk.*
vii. Corpus fuscum aut glauco-fuscum.
* Alæ limpidæ.
† Abdomen albo trivittatum.
‡ Corpus omnino fuscum.
§ Femora nigricantia.
‖ Tibiæ rufescentes. - dorsiger, *Wied.*
‖‖ Tibiæ albidæ. trimaculatus, *Pal Beauv.*
§§ Femora flavescentia. - ixyostactes, *Wied.*
‡‡ Corpus glauco-fuscum. - pungens, *Wied.*
‡‡‡ Corpus rubido-fuscanum. trinotatus, *Wied.*
§ Abdomen maculatum.
§§ Abdomen non maculatum. monochroma, *Wied.*
** Alæ subhyalinæ. - - - colombensis, *Macq.*
*** Alæ subfuscescentes - occidentalis, *Linn.*
**** Alæ subcinereæ.
† Costa subcinerea. - - surinamensis, *Macq.*

†† Costa fulva. - - - flavibarbis, *Macq.*
***** Alæ ad costam fuscescentes. obsoletus, *Wied.*
****** Alæ obscure fuscæ. - aphanopterus, *Wied.*
******* Alæ infumatæ. - - - vestitus, *Wied.*
******** Alæ sordide flavescentes.
† Antennæ nigræ. - - - impressus, *Wied.*
†† Antennæ rufescentes. - sorbillans, *Wied.*
********* Alæ flavidæ, apice fuscæ.
† Tibiæ albæ. - - - - fumatus, *Hoffm.*
†† Tibiæ obscuræ. - - psolopterus, *Wied.*

viii. Corpus fusco-ferrugineum. - albovarius, *Walk.*

ix. Thorax fuscus. Abdomen ferrugineum.
basivitta, *Walk.*

x. Thorax cinereus.
* Abdomen fuscum. - - - desertus, *Walk.*
** Abdomen fulvum.
† Femora postica fulva. - missionum, *Macq.*
†† Femora postica nigra. - nuntius, *Walk.*

xi. Thorax ferrugineus. Abdomen nigrum.
albomaculatus, *Walk.*

xii. Thorax rubidus. Abdomen fulvum.
semisordidus, *Walk.*

xiii. Thorax testaceus. Abdomen nigrum.
angustus, *Macq.*

xiv. Thorax glaucus. Abdomen fuscum, apice nigrum.
fervens, *Linn.*

xv. Thorax castaneus. Abdomen ferrugineum.
castaneus, *Macq.*

xvi. Corpus nigrum.
* Abdomen vittis duabus lateralibus testaceis.
bivittatus, *Macq.*
** Thorax fulvo bivittatus. - Bonariensis, *Macq.*
*** Thoracis latera testacea. - angustifrons, *Macq.*
**** Abdomen maculis lateralibus testaceis.
testaceo-maculatus, *Macq.*

xvii. Thorax niger.
* Abdomen testaceum.
† Abdomen immaculatum. - Peruvianus, *Macq.*
†† Abdomen vitta dorsali flava. - elongatus, *Macq.*
††† Abdomen macula dorsali apiceque fuscis.
rufiventris, *Macq.*
†††† Abdomen vitta dorsali nigra. Hilarii, *Macq.*
** Abdomen fulvum.
† Abdomen vitta lateribusque nigris.
marginatus, *Macq.*

†† Abdomen incisuris flavis. - flaviventris, *Macq.*
xviii. Thorax fuscus.
* Abdomen fulvum, vitta dorsali albida. fulviventris, *Macq.*
** Abdomen rufescens. - - rubripes, *Macq.*
*** Abdomen fuscum, lateribus testaceis. Guyanensis, *Macq.*
xix. Corpus glauco-cærulescens. Abdominis latera ferruginea. - - - - cinerarius, *Wied.*
xx. Thorax niger, lineis testaceis. Abdomen testaceum.
* Scutellum nigrum. - - - rubidus, *Macq.*
** Scutellum testaceum. - - - fallax, *Macq.*
xxi. Thoracis latera et abdomen pallida.
* Antennæ fusco-nigræ. - - Discus, *M. B.*
** Antennæ nigræ, basi pallidæ. rubescens, *Macq.*
*** Antennæ ferrugineæ. - - - tenens, *Walk.*
**** Antennæ rufæ. - - - consequa, *Walk.*
xxii. Thorax rubido-fuscus. Abdomen ochraceum. pellucidus, *Fabr.*
xxiii. Thorax testaceus.
* Abdomen nigricans. - - rubrithorax, *Macq.*
** Abdomen nigrum. - - - luctuosus, *Macq.*
xxiv. Corpus ferrugineum. - - unicolor, *Wied.*
xxv. Thorax testaceus.
* Abdomen rufum. - - - aurora, *Macq.*
** Abdomen fulvum.
† Abdomen fascia fusca. - fuscofasciatus, *Macq.*
†† Abdomen fascia viridi. - viridiventris, *Macq.*
xxvi. Corpus viridi pallidum.
* Alæ fuscanæ. - - - - testaceus, *Macq.*
** Alæ rufescentes. - - - rufipennis, *Macq.*
*** Alæ flavidæ. - - sulphureus, *Macq.*
**** Alæ limpidæ. - - - mexicanus, *Linn.*
xxvii. Corpus albidum. Abdomen medio testaceum, apice fuscum. - - - - albicans, *Macq.*

b. Alæ vittatæ.
i. Thorax niger.
* Abdominis segmenta fulvo marginata. fulvilateralis, *Macq.*
** Abdominis segmenta albo maculata. albibarbis, *Wied.*
ii. Thorax fuscus. - - - - miles, *Wied.*
iii. Thorax rubidus. - - - planiventris, *Wied.*
iv. Thorax testaceus. - - concurrens, *Walk.*

c. Alæ maculatæ.
i. Alæ macula fusca.
* Scutellum non albidum.
† Corpus rufescente fuscum. - trilineatus, *Latr.*
†† Corpus fuscum. - - tæniotes, *Wied.*
††† Corpus nigricans. - - nigripalpis, *Macq.*
†††† Thorax subglaucus. Abdomen melleum. varius, *Wied.*
** Scutellum albidum. - - - rufescens, *Fabr.*
ii. Alæ venis transversis nigro maculatis. maculipennis, *Macq.*
iii. Alæ venis fusco-fulvo marginatis. maculipennis, *Macq.*
iv. Alæ maculis quatuor fuscis. quadrimaculatus, *Macq.*
v. Alæ fusco punctatæ. - - punctipennis, *Macq.*
vi. Alæ fusco maculatæ.
* Corpus canescens. - - quadripunctatus, *Fabr.*
** Corpus rubido-fuscum. - maculipennis, *Wied.*
vii. Alæ fusco plagiatæ. - monogramma, *Wied.*
* Abdomen univittatum.
** Abdomen trivittatum. - - importunus, *Wied.*
viii. Alæ nigro maculatæ. - - - histrio, *Wied.*
ix. Alæ fuscæ, macula apiceque hyalinis. fenestratus, *Macq.*
x. Alæ fuscæ.
* Alæ apice limpidæ. - - - limpidapex, *Wied.*
** Alæ excisura lata apicali limpida. fuscipennis, *Wied.*
xi. Alæ fuscæ, alboguttatæ. - guttipennis, *Wied.*
xii. Alæ cinereæ maculis duabus sublimpidis. pubescens, *Walk.*
d. Alæ fasciatæ.
i. Alæ fuscæ, hyalino fasciatæ. - fascipennis, *Macq.*
ii. Alæ hyalinæ, fusco fasciatæ. - - apicalis, *Wied.*
e. Alæ fascia angulari maculisque nigro-fuscis. potator, *Wied.*
f. Alæ bivittatæ et unifasciatæ. - - pictipennis, *Macq.*
B. Abdomen basi triangulo notatum.
a. Abdomen vittatum. - - - triangulum, *Wied.*
b. Abdomen non vittatum. - trigonophorus, *Wied.*
B. Tibiæ ciliatæ.
A. Alæ flavescente cinereæ. - - variventris, *Macq.*
B. Alæ nigræ. - - - - - festivus, *Wied.*
B. Tibiæ dilatatæ. - - - - - compactus, *Walk.*
Sectio ——— ?
antarcticus, *Linn.*

178. TABANUS MODESTUS.

Nigellus; antennæ rufo-flavæ; abdomen vitta media angusta, lateralibus abbreviatis marginibusque albis; alæ subhyalinæ.

Tabanus modestus, *Wied. Auss. Zweifl.* i. 146, 56.
Brazil.

179. TABANUS TRIFARIUS.

Fœm. *Niger; oculi hirsuti; antennæ basi testacei; abdomen trifariam albido maculatum; pedes testacei, tarsis nigricantibus; alæ subhyalinæ.*

Tabanus trifarius, *Macq. Dipt. Exot.* i. 1, 141, 37.
Chili.

180. TABANUS COMITANS.

Nigellus; antennæ ferrugineæ; thorax albo trivittatus; abdomen incisuris maculisque albis; tibiæ flavescentes, anticæ dimidio apicali fusco; alæ limpidæ.

Tabanus comitans, *Wied. Auss. Zweifl.* i. 175, 96.
Brazil.

181. TABANUS RUBIGINIPENNIS.

Fœm. *Niger; thorax rufo tomentosus; tibiæ fuscæ; alæ rubiginosæ.*

Tabanus rubiginipennis, *Macq. Dipt. Exot. Suppl.* 1, 39, 81.
New Grenada. Temperate Region.

182. TABANUS FLAVIFACIES.

Fœm. *Niger; antennæ basi cinereæ; thorax vittis cæsiis; abdomen trifariam maculis dorsalibus albis; tibiæ testaceæ; alæ fuscanæ.*

Tabanus flavifacies, *Macq. Dipt. Exot. Suppl.* 1, 36, 73.
Colombia.

183. Tabanus Valterii.

Fœm. *Niger; antennæ basi testacea, furca subelongata; abdominis latera, venter tibiæque testacea; femora tarsique fusca; alæ cinereæ, basi et costa subfuscæ.*

Tabanus Valterii, *Macq. Dipt. Exot.* i. 2, 184.
Brazil.

184. Tabanus chilensis.

Fœm. *Niger; antennæ basi testaceæ; abdominis segmentorum margines postici pedesque fulvi; tibiæ apice tarsique nigra; alæ subcinereæ.*

Tabanus chilensis, *Macq. Dipt. Exot.* i. 1, 141, 38.
Chili.

185. Tabanus importunus.

Fœm. *Niger; antennæ fulvæ, apice nigræ; abdominis incisuræ fulvæ; tibiæ posteriores fulvæ, anticæ basi albæ; alæ subcinereæ, venæ cubitalis ramo 1o furcato.*

Tabanus importunus, *Macq. Dipt. Exot. Suppl.* 2, 18, 98.
Brazil.

186. Tabanus alboater.

Niger; albo hirtus; antennæ et pedes nigra; caput album; thoracis latera ferruginea; pectus canum; abdomen fasciculis albis trivittatum; alæ cinereæ.

Tabanus alboater, *Walk. Zool.* viii. *Append.* lxvi.
a. Parà. From Mr. Bates' collection.

187. Tabanus auribarbis.

Niger, latus; barba aurea; scutellum testaceum; alæ subhyalinæ; macula fusca.

Tabanus auribarbis, *Macq. Dipt. Exot. Suppl.* 3, 12, 94.
Quito, Peru.

188. Tabanus leucaspis.

Nigellus; scutellum, abdominis fasciæ tibiæque basi alba; alæ limpidæ.

Tabanus leucaspis, *Wied. Auss. Zweifl.* i. 179, 113.

Brazil.

189. Tabanus cinereus.

Cinereus; thorax fusco quadrivittatus; abdominis segmenta fusco quadrimaculata; alæ limpidissimæ.

Tabanus cinereus, *Wied. Dipt. Exot.* i. 89, 48; *Auss. Zweifl.* i. 167, 85.

South America.

190. Tabanus trivittatus.

Nigellus; antennæ tibiæque ferrugineæ; abdomen fuscum, albo trivittatum.

Tabanus trivittatus, *Fabr. Syst. Antl.* 104, 40. *Wied. Dipt. Exot.* i. 85, 41; *Auss. Zweifl.* i. 172, 91.

Brazil.

191. Tabanus plangens.

Fœm. *Nigro-piceus, subtus albo tomentosus; palpi albidi; antennæ rufæ, parvæ, arcuatæ, subdilatatæ, apice nigræ; abdomen albido trivittatum, lateribus subtus testaceis; pedes nigri, femoribus apice tibiisque posterioribus fulvis, tibiis anticis basi albis; alæ cinereæ.*

Fem. Piceous black, whitish, and clothed with white tomentum and down beneath. Head with a small black callus in front between the eyes. Eyes composed of extremely small facets. Palpi whitish. Antennæ small, red, curved, black towards the tips; third joint slightly dilated, forming a nearly right angle. Abdomen with three whitish bands, the lateral pair indistinct; sides testaceous beneath. Legs black; tibiæ and tips of the femora of the four posterior legs tawny; fore tibiæ white towards the base. Wings gray; stigma brown; veins black; cubital vein forming an obtuse or slightly obtuse angle near the base; in the latter case it rejects the

rudiment of a branch; subanal vein joining the anal at some distance from the border. Length of the body 5—5½ lines; of the wings 9—10 lines.

a, *b*. Parà. From Mr. Bates' collection.

192. Tabanus olivaceiventris.

Mas. *Niger; thorax tomentosus; antennæ dente longo; abdomen olivaceum; alæ flavescenti-cinereæ.*

Tabanus olivaceiventris, *Macq. Dipt. Exot. Suppl.* 2, 18, 96.

Parà.

193. Tabanus caiennensis.

Niger, fulvo hirtus; antennæ fulvæ; abdomen basi ferrugineum, incisuris flavo pilosis; femora postica rufa; alæ sublimpidæ.

Tabanus caiennensis, *Fabr. Ent. Syst.* iv. 366, 19; *Syst. Antl.* 98, 22. *Wied. Dipt. Exot.* i. 91, 52; *Auss. Zweifl.* i. 178, 101.

Cayenne, Brazil.

194. Tabanus theotænia.

Niger; abdomen basi sulphureum; alæ nigræ, summo apice dilutiores.

Tabanus theotænia, *Wied. Auss. Zweifl.* i. 136, 38.

Brazil.

195. Tabanus tristis.

Niger; abdomen basi flavum; alæ flavæ, apice infumatæ.

Tabanus tristis, *Wied. Auss. Zweifl.* i. 164, 81.

Brazil.

196. Tabanus callosus.

Fœm. *Niger; antennæ fulvæ, abdominis latera testacea; tibiæ fulvæ albo pubescentes, apice nigræ; alæ hyalinæ.*

Tabanus callosus, *Macq. Dipt. Exot. Suppl.* 3, 11, 91.

Rio Negro.

197. Tabanus recedens.

Niger; caput cano tomentosum; antennæ basi fulvæ; thorax cano trivittatus; abdomen fulvum, vitta dorsali apiceque nigris, segmentorum marginibus posticis testaceis; pedes fulvi, tibiis anticis apice tarsis anticis femoribusque nigris; alæ cinereæ, venis fulvis fusco nebulosis.

Fem. More slender than *T. triligatus*, to which it is nearly allied. Black. Head much more than twice broader than long, clothed with hoary tomentum and down. Palpi testaceous. Antennæ tawny towards the base. Thorax with three hoary stripes, clothed with hoary hairs; a few black hairs on each side, and a tawny callus before each wing. Abdomen tawny, with a black stripe, which is dilated towards the tip, and there occupies the whole surface; hind borders of the segments testaceous. Legs tawny; femora, fore tarsi and tips of the fore tibiæ black. Wings gray: veins tawny, slightly clouded with brown; transverse veinlets darker and more clouded; first branch of the cubital vein simple, forming an obtuse angle near its base; subanal joining the anal at some distance from the border. Halteres tawny, black towards the tips, which are testaceous. Length of the body 6¼ lines; of the wings 12 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

198. Tabanus fuscus.

Fuscus; abdomen nigellum; alæ fuscanæ.

Tabanus fuscus, *Wied. Zool. Mag.* iii. 41, 1; *Dipt. Exot.* i. 68, 12; *Auss. Zweifl.* i. 121, 14.

Brazil.

199. Tabanus clausus.

Fœm. *Fuscus; antennæ pedesque nigra; abdomen cæruleo-nigrum; alæ fuscanæ, venæ cubitalis ramo 2o venaque externo-media 1a conjunctis.*

Tabanus clausus, *Macq. Dipt. Exot. Suppl.* 2, 17, 95.

Brazil.

200. Tabanus stigma.

Fuscanus; antennæ ferrugineæ apice nigræ; thorax albido trivittatus; abdomen cinerascens vitta media maculisque fuscis; alæ subquadripunctatæ.

Tabanus stigma, *Fabr. Syst. Antl.* 104, 50. *Wied. Dipt. Exot.* i. 92, 53; *Auss. Zweifl.* i. 180, 104.

South America. Isle St. Thomas.

201. Tabanus viduus.

Cinereus; palpi antennæque nigra, harum articulus 3us piceus; abdomen ferrugineum, apice nigrum; pedes picei, femoribus nigris; alæ cinereæ, basi et ad costam fuscæ.

Tabanus viduus, *Walk. Zool.* viii. *Append.* lxviii.

a, b. Parà. From Mr. Bates' Collection.

202. Tabanus dorsiger.

Fuscus; thorax obsolete albido vittatus; abdomen albo trivittatum; alæ limpidæ.

Tabanus dorsiger, *Wied. Dipt. Exot.* i. 83, 38; *Auss. Zweifl.* i. 173, 92.

Brazil.

203. Tabanus trimaculatus.

Fuscus; thorax albido lineatus; abdomen cinereo marginatum, maculis tribus albis; tibiæ albæ.

Tabanus trimaculatus, *Pal. Beauv. Ins.* 56, pl. 1, f. 5. *Wied. Auss Zweifl.* i. 137, 40. *Macq. Dipt. Exot.* i. 1, 142, 42. (United States?)

South America.

204. Tabanus ixyostactes.

Fuscus; thorax albido vittatus; antennæ luteæ; abdomen vitta e maculis trigonis et utrinque guttis transversis albis; alæ limpidæ.

Tabanus ixyostactes, *Wied. Auss. Zweifl.* i. 190, 119.

Brazil.

205. Tabanus pungens.

Glauco-fuscus; thorax obsolete vittatus; antennæ rufescentes, apice nigræ; abdomen vitta maculari et maculis obliquis albis; pedes nigro-fusci; tibiæ pallidæ, anticæ apices versus nigræ; alæ limpidæ.

Tabanus pungens, *Wied. Auss. Zweifl.* i. 175, 97.

Monte Video.

206. Tabanus trinotatus.

Rubido-fuscanus; thorax albido lineatus; abdomen trifariam maculatum; alæ limpidæ.

Tabanus trinotatus, *Wied.*

a. Ega, on the Amazon. From Mr. Bates' collection.

207. Tabanus monochroma.

Rubido-fuscus, nigro hirtus; alæ fuscanæ, furcæ apicalis ramo interno a vena sequente remoto.

Tabanus monochroma, *Wied. Auss. Zweifl.* i. 555, 27,

Monte Video.

208. Tabanus Colombensis.

Fœm. *Fuscus; antennæ fulvæ, apice nigræ; abdomen vittis duabus albidis; pedes fulvi, femora antica tarsique nigra, tibiæ anticæ basi albidæ apice nigræ; alæ subhyalinæ.* Long. 6 lin.

Tabanus Colombensis, *Macq. Dipt. Exot. Suppl.* 1, 37, 76.

Colombia.

209. Tabanus occidentalis.

Fuscus; antennæ fulvæ; thorax fulvo hirtus; abdomen albido trivittatum; pedes fulvi, antici nigri; alæ subfuscescentes.

Tabanus occidentalis, *Linn.*

Brazil.

210. Tabanus surinamensis.

Fœm. *Antennæ rufæ, apice nigræ; thorax fuscus; abdomen rufum, maculis dorsalibus flavescentibus, lateralibusque rufis; pedes rufi; alæ subcinereæ, venæ cubitalis ramo 1o furcato.*

Tabanus surinamensis, *Macq. Dipt. Exot.* i. 1, 132, 22.

Surinam.

211. Tabanus flavibarbis.

Fœm. *Fuscus; antennæ nigræ, basi testaceæ; abdomen maculis dorsalibus vittisque lateralibus albidis; pedes fulvi; tarsis nigricantibus; alæ subcinereæ, costa fulva.*

Tabanus flavibarbis, *Macq. Dipt. Exot. Suppl.* 1, 41, 85.

Cayenne.

212. Tabanus obsoletus.

Fuscus; antennæ luteæ, apice nigræ; abdomen trivittatum, vitta media angustiore et obsoleta; pedes nigro-fusci, tibiis rufescentibus; alæ hyalinæ, ad costam fuscescentes.

Tabanus obsoletus, *Wied. Dipt. Exot.* i. 85, 42; *Auss. Zweifl.* i. 174, 95.

Bahia.

213. Tabanus aphanopterus.

Fuscanus, fulvo hirtus; antennæ rufo-flavæ, apice nigræ; thorax glaucescens; abdomen apice obscurius; alæ saturate fuscæ.

Tabanus aphanopterus, *Wied. Auss. Zweifl.* i. 148, 59.

Brazil.

214. Tabanus vestitus.

Schisticolor; abdomen badium, albo maculatum; alæ infumatæ.

Tabanus vestitus, *Wied. Zool. Mag.* iii. 42, 2; *Dipt. Exot.* i. 70, 15; *Auss. Zweifl.* i. 128, 26.

Brazil.

215. Tabanus impressus.

Saturate fuscus; thorax striis tribus impressis; abdomen subbadium; furcæ apicalis ramus internus vena sequente conjunctus.

Tabanus impressus, *Wied. Auss. Zweifl.* i. 126, 23.

Brazil.

216. Tabanus sorbillans.

Rubido-fuscanus; abdomen vitta maculari alba; alæ pallide flavo-fuscescentes; halteres flavi, apice albi; pedes rubidi.

Tabanus sorbillans, *Wied.*

Brazil.

217. Tabanus fumatus.

Omnino glandicolor; alæ flavidæ, costa apiceque fuscis; tibiæ albæ.

Tabanus fumatus, *Hoffmansegg, Wied. Dipt. Exot.* i. 91. 50; *Auss. Zweifl.* i. 177, 99.

Brazil.

218. Tabanus psolopterus.

Saturate fuscus; antennæ rufo-flavæ; abdomen vitta flavida; alæ flavidæ, apice infumatæ.

Tabanus psolopterus, *Wied. Auss. Zweifl.* i. 181, 105.

Monte Video.

219. Tabanus albovarius.

Fœm. *Fusco-ferrugineus; palpi fusci, basi testacei; antennæ subarcuatæ, simplices, vix dilatatæ; thorax albo quadrivittatus; scutellum et pectus albo tomentosa; abdomen e maculis albis trivittatum; pedes fulvi, tarsis nigris; alæ subcinereæ.*

Male. Brownish ferruginous. Head clothed with white down and tomentum, with a long and very narrow ferruginous callus between the eyes, which are æneous, nearly contiguous above, and composed of extremely small facets. Palpi brown, testaceous at the base. Antennæ brown, slightly curved; third joint a little dilated, forming a slightly obtuse angle. Thorax with two white stripes on each side. Scutellum and pectus with white tomentum. Abdomen with three rows of white spots, the middle spots triangular; hind borders of the ventral segments with white tomentum. Legs tawny; tarsi black. Wings slightly gray; stigma ferruginous; veins black; first branch of the cubital simple, forming an obtuse angle near its base; subanal vein joining the anal near the border. Length of the body 5½ lines; of the wings 1 line.

a. Ega, on the Amazon. From Mr. Bates' collection.

220. Tabanus basivitta.

Fuscus; antennæ ferrugineæ, basi fulvæ; pectus cinereum; abdomen ferrugineum, basi nigro vittatum; pedes ferruginei, tarsis nigris; alæ cinereæ, basi costaque fuscis.

Tabanus basivitta, *Walk. Zool.* viii. *Append.* lxviii.

a. Parà. From Mr. Bates' collection.

221. Tabanus desertus.

Cinereus; thoracis latera fulva; pectus canum; abdomen fuscum, maculis trigonis fulvis trivittatum, lateribus ferrugineis, ventre fulvo; pedes fulvi; alæ cinereæ.

Tabanus desertus, *Walk. Zool.* viii. *Append.* lxix.

Parà. From Mr. Bates' collection.

222. Tabanus missionum.

Fœm. *Cinereus; antennæ fulvæ apice fuscæ; abdomen fulvum, vitta dorsali nigricante; pedes fulvi, tibiis anticis nonnunquam basi albis apice nigris, tarsis anticis fuscis; alæ hyalinæ, venæ cubitalis ramo 1o furcato.*

Tabanus missionum, *Macq. Dipt. Exot.* i. 2, 186.
Brazil.

223. Tabanus nuntius.

Mas. *Niger; oculi æneï; palpi albi; antennæ parvæ, fulvæ, subarcuatæ, simplices, vix dilatatæ; thoracis latera fulva; abdomen fulvum, vitta lata nigra; pedes fulvi, tibiis anticis apice, tarsis anticis femoribusque nigris; alæ subcinereæ.*

Male. Black. Head clothed beneath with white tomentum and down. Eyes æneous, composed of extremely small facets. Palpi white. Antennæ small, tawny, black at the tips, slightly curved; third joint hardly dilated, forming an obtuse angle above. Thorax slightly covered with gray tomentum; sides tawny. Pectus with whitish tomentum. Abdomen tawny, with a broad black dorsal stripe. Legs tawny; femora, fore tarsi, and tips of fore tibiæ black. Wings grayish; veins black, tawny at the base and along the costa; cubital vein simple, forming a very obtuse angle near its base; subanal joining the anal at some distance from the border. Halteres white. Length of the body 4½ lines; of the wings 9 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

224. Tabanus albomaculatus.

Mas. *Ferrugineus; oculi æneï; palpi picei, basi testacei; antennæ nigræ, furcatæ, subarcuatæ, valde acuminatæ; thorax nigro-trivittatus; pectus nigro varium; abdomen nigrum, vittis duabus macularibus albis; pedes nigri; alæ obscure fuscæ, apicibus, marginibus posticis maculisque nonnullis cinereis.*

Male. Ferruginous. Head with testaceous tomentum and down. Eyes æneous, composed of extremely small facets. Palpi

piceous, testaceous at the base. Antennæ black, much acuminated, slightly curved; third joint armed with an acuminated moderately long horn. Thorax with three blackish stripes. Pectus mostly black. Abdomen black, with two rows of white spots. Legs black. Wings dark brown; tips, hind border and disks of some of the areolets gray; veins black; cubital vein simple, forming a slightly obtuse and somewhat rounded angle; subanal joining the anal at some distance from the border. Halteres tawny, with whitish knobs. Length of the body 10 lines; of the wings 18 lines.

a. Brazil. From Mr. Bates' collection.

225. Tabanus semisordidus.

Ferrugineus; oculi ænei; palpi albi; antennæ piceæ, simplices, valde arcuatæ, vix dilatatæ, basi fulvæ; thorax nigro quadrivittatus; abdomen vitta interrupta nigra; pedes fulvi, tibiis anticis apice femoribus anticis tarsisque piceis; alæ cinereæ, antice fuscæ maculis pallidioribus.

Female. Ferruginous. Head clothed with whitish tomentum and down, with a much elongated callus between the eyes. Eyes æneous, composed of extremely small facets. Palpi white. Antennæ piceous, much curved, tawny towards the base; first and second joints angular above; third slightly dilated, forming an acute angle. Thorax with four black stripes. Abdomen with an interrupted black stripe, which is most conspicuous towards the tip. Legs tawny; tarsi, fore femora and tips of fore tibiæ piceous. Wings gray; fore part for two-thirds of the length and half the breadth brown, excepting the disks of some of the areolets; veins black; cubital vein simple, forming a slightly obtuse angle near the base; subanal joining the anal at some distance from the base. Length of the body 7½ lines; of the wings 15 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

226. Tabanus angustus.

Fœm. *Antennæ pedesque rufa; thorax testaceus; abdomen elongatum, nigricans, vittis tribus albidis; alæ hyalinæ.*

Tabanus angustus, *Macq. Dipt. Exot.* i. 1, 136, 29, pl. 17, f. 3.

Distinguished from *T. modestus*, *trivittatus*, *&c.* by its tawny fore legs.

Monte Video.

227. Tabanus fervens.

Glaucus, fulvo hirtus; abdomen fuscanum, apice nigellum, vitta postice latiore fulva.

Tabanus fervens, *Linn. Syst. Nat.* ii. 1000, 9. *Deg. Ins.* vi. 228, 4, pl. 30, f. 4. *Fabr. Ent. Syst.* iv. 365, 12; *Syst. Antl.* 95, 11. *Wied. Auss. Zweifl.* i. 185, 112.

Brazil.

228. Tabanus castaneus.

Castaneus; frons, facies, palpi et antennæ ferruginea, hæ dente elongato; abdomen ferrugineum; pedes fulvi, femoribus tarsisque posticis fuscis; alæ hyalinæ, costa flava.

Tabanus castaneus, *Macq. Hist. Nat. Dipt.* i. 8, 4.

Cayenne.

229. Tabanus bivittatus.

Fœm. *Niger; abdomen vittis duabus lateralibus testaceis; pedes fulvi, tarsis anticis nigris; alæ flavescentes, venæ cubitalis ramo lo subfurcato.*

Tabanus bivittatus, *Macq. Dipt. Exot. Suppl.* 1, 35, 72.

Brazil.

230. Tabanus bonariensis.

Fœm. *Niger; thorax vittis duabus maculisque duabus fulvis; abdominis segmentorum 2i, 3i, 4ique latera pedesque fulva; alæ subcinereæ, basi et ad costam subflavæ.*

Tabanus bonariensis, *Macq. Dipt. Exot.* i. 1, 138, 33.

Buenos Ayres.

231. Tabanus angustifrons.

Fœm. *Niger; thoracis latera tibiæque basi testacea; venter incisuris albidis; alæ subcinereæ.*

Tabanus angustifrons, *Macq. Dipt. Exot. Suppl.* 3, 12, 93.

Cayenne.

232. Tabanus testaceo-maculatus.

Fœm. *Niger; antennæ basi testaceæ; oculi hirsuti; abdomen maculis lateralibus testaceis, incisurisque albidis; pedes rufi, tarsis nigricantibus; alæ hyalinæ.*

Tabanus testaceo-maculatus, *Macq. Dipt. Exot.* i. 1, 140, 36.

Chili.

233. Tabanus Peruvianus.

Fœm. *Niger; antennæ testaceæ, apice fuscæ, dente elongato; abdomen tibiæque testacea; alæ fuscæ.*

Tabanus Peruvianus, *Macq. Dipt. Exot. Suppl.* 3, 13, 95.

Quito, Peru.

234. Tabanus elongatus.

Fœm. *Longus, niger; antennæ fulvæ, apice nigræ; abdomen testaceum, vitta dorsali flava; pedes fulvi; alæ flavidæ.*

Tabanus elongatus, *Macq. Dipt. Exot. Suppl.* 1, 38, 79, pl. 4, f. 4.

New Grenada. Temperate Region.

235. Tabanus rufiventris.

Fœm. *Niger; antennæ testaceæ apice nigræ; abdomen testaceum, macula dorsali apiceque fuscis; pedes fulvi; alæ rufescentes.*

Tabanus rufiventris, *Macq. Dipt. Exot. Suppl.* 1, 38, 78.

Santa Fe de Bogota.

236. Tabanus Hilarii.

Fœm. *Niger; antennæ basi subtus testaceæ; abdomen testaceum, vitta dorsali angusta nigra; tibiæ testaceæ; alæ subcinereæ, costa flavescentes, venæ cubitalis ramo 1o furcato.*

Tabanus Hilarii, *Macq. Dipt. Exot.* i. 2, 185.

Brazil.

237. Tabanus marginatus.

Fœm. *Niger; antennæ basi fulvæ; abdomen fulvum, vitta lateribusque nigris; tibiæ testaceæ; alæ subflavescentes, venæ cubitalis ramo 1o furcato.*

Tabanus marginatus, *Macq. Dipt. Exot. Suppl.* 3, 12, 92.
Brazil.

238. Tabanus flaviventris.

Fœm. *Niger; abdomen fulvum incisuris flavis; alæ flavescentes, basi nigro-fuscæ.*

Tabanus flaviventris, *Macq. Dipt. Exot. Suppl.* 3, 11, 90.
Rio Negro.

239. Tabanus fulviventris.

Fœm. *Angustus, fulvus; antennæ apice nigræ; thorax fuscus; abdomen vitta dorsali albida; tarsi fusci; alæ hyalinæ, venæ cubitalis ramo 1o furcato.*

Tabanus fulviventris, *Macq. Dipt. Exot. Suppl.* 1, 36, 75.
Brazil.

240. Tabanus rubripes.

Fœm. *Antennis testaceæ, apice fuscæ; thorax fuscus; abdomen rufescens; pedes rubræ; alæ fuscanæ, venæ cubitalis ramo 1o furcato.*

Tabanus rubripes, *Macq. Dipt. Exot.* i. 1, 134, 25.
Cayenne.

241. Tabanus Guyanensis.

Fœm. *Fuscus; antennæ nigræ; thorax vitta cinerea; abdomen maculis dorsalibus cinereis, lateribus testaceis; tibiæ testaceæ; alæ subcinereæ, basi et costa fuscis.*

Tabanus Guyanensis, *Macq. Dipt. Exot. Suppl.* 1, 41, 84, pl. 4, f. 9.
Guiana.

242. TABANUS CINERARIUS.

Glauco-cærulescens; abdomen ferrugineum, vitta media anoque glauco-cærulescentibus; alæ infumatæ.

Tabanus glaucus, *Wied. Zool. Mag.* iii. 42, 3; *Dipt. Exot.* i. 69, 13.

Tabanus cinerarius, *Wied. Auss. Zweifl.* i. 121, 15.

Brazil.

243. TABANUS RUBIDUS.

Fœm. *Niger; thoracis lineæ et abdomen testacea; tibiæ fuscæ; alæ fuscanæ.*

Tabanus rubidus, *Macq. Dipt. Exot. Suppl.* 2, 19, 100.

Cayenne.

244. TABANUS FALLAX.

Fœm. *Testaceus; antennæ et thorax nigra, hujus latera et scutellum testacea, tarsi nigri; alæ fuscanæ, venæ cubitalis ramo 2o venaque externo-mediali 1a conjunctis.*

Tabanus fallax, *Macq. Dipt. Exot. Suppl.* 2, 20, 101.

Cayenne.

245. TABANUS DISCUS.

Ferruginosus; thoracis discus, scutellum basi, pedesque fusconigra; alæ flavidæ.

Tabanus Discus, *M. B. Wied. Auss. Zweifl.* i 123, 18.

Brazil.

246. TABANUS RUBESCENS.

Fœm. *Niger; antennæ basi thoracisque latera testacea; abdomen rubescens, maculis dorsalibus nigris; pedes rufi.*

Tabanus rubescens, *Macq. Dipt. Exot.* i. 1, 139, 34.

Monte Video.

247. TABANUS TENENS.

Cinereus; antennæ, thoracis latera et pedes ferruginea; abdomen ferrugineum, vitta cinerea; femora cinerea; tarsi picei, antici nigri; alæ cinereæ, basi costa venarumque marginibus flavo-fuscis.

Tabanus tenens, *Walk. Zool.* viii. *Append.* lxv.

a. Parà. From Mr. Badgerley's collection.

248. TABANUS CONSEQUA.

Fulvus; caput album; antennæ rufæ; thoracis discus fuscus; pectus canum; abdomen vittis duabus fulvo-piceis ornatum; tarsi pedesque antici nigri; tibiæ anticæ basi albæ; alæ subcinereæ, basi et ad costam subfulvæ.

Tabanus consequa, *Walk. Zool.* viii. *Append.* cxxi.

a. Parà. From Mr. Bates' collection.

249. TABANUS PELLUCIDUS.

Rubido-fuscus; abdomen ochraceum; alæ infumatæ.

Tabanus pellucidus, *Fabr. Syst. Antl.* 97, 21. *Wied. Dipt. Exot.* i. 70, 16; *Auss. Zweifl.* i. 129, 27.

South America.

250. TABANUS RUBRITHORAX.

Fœm. *Testaceus; antennæ apice nigræ; abdomen nigricans, maculis dorsalibus flavescentibus; pedes fulvi, tarsis fuscis; alæ hyalinæ, venæ cubitalis ramo 1o furcato.*

Tabanus rubrithorax, *Macq. Dipt. Exot.* i. 1, 139, 35.

Brazil.

251. TABANUS LUCTUOSUS.

Fœm. *Niger; antennæ dente elongato; thorax testaceus, fusco trivittatus; alæ cyaneo-nigræ.*

Tabanus luctuosus, *Macq. Dipt. Exot.* i. 1, 135, 27.

Brazil.

252. TABANUS UNICOLOR.

Saturatissime ferrugineus ; alæ limpidæ, venis et stigmate flavis.

Tabanus unicolor, *Wied. Auss. Zweifl.* i. 141, 47.
Brazil.

253 TABANUS AURORA.

Fœm. *Rufus ; thorax testaceus ; alæ rufescentes.*

Tabanus aurora, *Macq, Dipt. Exot.* i. 1, 138, 32.
Brazil.

254. TABANUS FUSCOFASCIATUS.

Fœm. *Fulvus ; antennæ apice nigræ ; thorax testaceus ; abdomen fascia dorsali fusca ; alæ subcinereæ, basi et ad costam subrufæ.*

Tabanus fuscofasciatus, *Macq Dipt. Exot.* i. 1, 136, 30.
Brazil.

255. TABANUS VIRIDIVENTRIS.

Fœm. *Fulvus ; antennæ dente elongato ; thorax testaceus ; abdominis segmenta 2um, 3umque viridia.*

Tabanus viridiventris, *Macq. Dipt. Exot.* i. 1, 137, 31.
Rio Janiero.

256. TABANUS TESTACEUS.

Fœm. *Testaceus ; frons angusta ; alæ fuscanæ.*

Tabanus testaceus, *Macq. Dipt. Exot.* i. 1, 133, 23.
Tabanus fuscus, Var. ?
Cayenne.

257. TABANUS RUFIPENNIS.

Fœm. *Testaceus ; antennæ fuscæ, dente elongato ; pedes nigræ ; alæ rufescentes.*

Tabanus rufipennis, *Macq. Dipt. Exot.* i. 1, 134, 26.
Brazil.

258. Tabanus sulphureus.

Sulphureus; antennæ apice nigræ; alæ flavidæ.

Tabanus sulphureus, *Macq. Dipt. Exot. Suppl.* 2, 19, 99.

Brazil.

259. Tabanus mexicanus.

Fuscescens aut viridi-albus; thorax flavido aut cinereo hirtus; abdomen pellucidum, apice fuscum; alæ limpidæ, punctatæ venis viridibus.

Tabanus mexicanus, *Linn. Syst.* ii. 1000, 10. *Fabr. Sp. Ins.* ii. 457, 16; *Ent. Syst.* iv. 367, 22; *Syst. Antl.* 98, 25. *Wied. Dipt. Exot.* i. 76, 29; *Auss. Zweifl.* ii. 147, 58.

Tabanus olivaceus, *Deg. Ins.* vi. 230, 6, pl. 30, f. 6. *Macq. Dipt. Exot.* i. 1, 143, 43.

Tabanus punctatus, *Fabr. Ent. Syst. iv.* 368, 25.

Tabanus inanis, *Fabr. Ent. Syst.* iv. 368, 26.

Tabanus ochroleucus, *Meig. Dipt.* ii. 62, 41.

Mexico? and South America.

Var. ? *Viridi-flavus; antennæ fulvæ, basi flavæ; abdomen apice fulvum; pedes viridi-flavi; alæ albidæ.*

Tabanus viridi-flavus, *Walk. Zool.* viii. *Append.* lxvi.

a. Brazil.

260. Tabanus albicans.

Mas. *Albidus; antennæ testaceæ, apice nigræ; abdomen medio testaceum, apice fuscum; pedes nigri, tibiæ antice albæ; alæ hyalinæ.*

Tabanus albicans, *Macq. Dipt. Exot. Suppl.* 1, 37, 76, pl. 4, f. 2.

Colombia.

261. Tabanus fulvilateralis.

Fœm. *Niger; abdominis segmenta fulvo marginata, lateribus basi tibiisque fulvis; alæ subcinereæ, venis fusco marginatis.*

Tabanus fulvilateralis, *Macq. Dipt. Exot.* i. 1, 133, 24.

Allied to *T. tropicus.*

Cayenne.

262. Tabanus albibarbis.

Nigellus; abdomen rubidum, trifariam albo maculatum; alæ venis fuscano limbatis, venæ cubitalis ramo 2o venaque externo-mediali 1a conjunctis.

Tabanus albibarbis, *Wied. Anal. Entom.* 21, 6; *Auss. Zweifl.* i. 125, 22.

South America.

263. Tabanus miles.

Fuscus; thorax vittis duabus lateribusque flavido-albis; abdomen vitta maculari incisurisque albis; alæ venis obsolete fusco limbatis.

Tabanus miles, *Wied. Auss. Zweifl.* ii. 139, 44.

Brazil.

264. Tabanus planiventris.

Lilacino-rubidus; antennæ ferrugineæ; abdomen melleum, basi utrinque flavo pilosum; alæ flavo venosæ.

Tabanus planiventris, *Weid. Auss. Zweifl.* i. 139, 44.

Brazil.

265. Tabanus concurrens.

Mas. *Obscure testaceus; antennæ fulvæ, apice nigræ; abdomen apice piceum; pedes fulvi; alæ cinereæ, basi fasciaque cinereo unimaculata fuscis.*

Male. Dingy testuceous. Eyes blackish, composed of extremely minute facets. Proboscis black. Palpi testaceous. Antennæ

tawny, simple, black towards the tips; third joint with a very short spine. Abdomen piceous towards the tip. Legs tawny. Wings gray, brown at the base, and with a broad irregular brown band, which does not reach the hind border, and contains a gray spot. Halteres testaceous, with piceous knobs. Length of the body 3 lines; of the wings 6 lines.

a. West Coast of America. Presented by Capt. Kellett and Lieut. Wood.

266. Tabanus trilineatus.

Rufescente-fuscus; caput subtus pectusque subcinerea; tibiæ anticæ nigræ, basi ad medium albæ; alæ marginem externum versus macula fusca.

Tabanus trilineatus, *Latr.*

Brazil.

267. Tabanus tæniotes.

Fuscus; antennæ luteæ; abdomen fuscanum, vitta albida; alæ apice ad costam fuscanæ.

Tabanus tæniotes, *Wied. Auss. Zweifl.* i. 188, 116.

Brazil.

268. Tabanus nigripalpis.

Fœm. *Angustus, nigricans; antennæ testaceæ, basi apiceque nigræ; alæ hyalinæ, macula fusca.*

Tabanus nigripalpis, *Macq. Dipt. Exot. Suppl.* 1, 40, 82, pl. 4, f. 7, 8.

New Grenada. Temperate Region.

269. Tabanus varius.

Subglaucus; antennæ luteæ, apice nigro-fuscæ; thorax fascia scutelloque fuscis; abdomen melleum, maculis late trigonis fuscis; alæ fusco variegatæ.

Tabanus varius, *Wied. Auss. Zweifl.* i. 189, 117.

Brazil.

270. TABANUS RUFESCENS.

Ferrugineo-rubidus; scutellum albidum; alæ limpidæ, macula magna fusca.

Tabanus rufescens, *Fabr. Syst. Antl.* 100, 33. *Wied. Dipt. Exot.* i. 81, 35; *Auss. Zweifl.* i. 161, 77.

South America.

271. TABANUS MACULIPENNIS. (Nomen bis lectum.)

Fœm. *Niger; abdomen fuscum, basi fulvum; tibiæ fulvæ; alæ subhyalinæ, venis transversis nigro maculatis.*

Tabanus maculipennis, *Macq. Dipt. Exot. Suppl.* 1, 34, 70, pl. 3, f. 14.

Brazil.

272. TABANUS MACULIPENNIS.

Testaceo-fulvus; antennæ dentatæ; thorax indistincte vittatus; abdominis segmenta maculis dorsalibus fuscis; alarum venæ fusco-fulvo late limbatæ.

Tabanus maculipennis, *Macq. Hist. Nat. Dipt.* i. 198, 6.

Brazil.

273. TABANUS QUADRIMACULATUS.

Fœm. *Fuscus; antennæ testaceæ apice nigræ; abdomen testaceum, maculis dorsalibus fulvis, lateralibusque fuscis; alæ hyalinæ, maculis quatuor fuscis.*

Tabanus quadrimaculatus, *Macq. Dipt. Exot. Suppl.* 1, 39, 80, pl. 4, f. 5.

New Grenada.

274. TABANUS PUNCTIPENNIS.

Fœm. *Niger; abdomen basi rufescens, vitta dorsali maculisque lateralibus albidis; tibiæ posteriores fusco-fulvæ, anticæ basi albidæ; alæ hyalinæ, fusco punctatæ.*

Tabanus punctipennis, *Macq. Dipt. Exot.* i. 2, 185.

Brazil.

275. TABANUS QUADRIPUNCTATUS.

Canescens; thorax fusco trivittatus; abdomen albido quadrimaculatum; alæ fusco maculatæ.

Tabanus quadripunctatus, *Fabr. Syst. Antl.* 99, 29. *Wied. Dipt. Exot.* i. 77, 30; *Auss. Zweifl.* i. 151, 63.

Brazil.

276. TABANUS MACULIPENNIS.

Rubido-fuscus; antennæ pedesque ferruginea; thorax albo lineatus; abdomen vitta maculari alba; alæ fusco maculatæ.

Tabanus maculipennis, *Wied. Auss. Zweifl.* i. 138, 43.

Brazil.

277. TABANUS MONOGRAMMA.

Lilacinus; thorax nigro vittatus; abdomen ferruginosum vitta nigella; alæ fusco plagiatæ.

Tabanus monogramma, *Wied.*

Brazil.

278. TABANUS IMPORTUNUS.

Lilacino-rubidus; thorax vittis quatuor; abdomen luteum vittis tribus nigris; alæ fusco plagiatæ.

Tabanus importunus, *Wied. Auss. Zweifl.* i. 127, 24.

Brazil.

279. TABANUS HISTRIO.

Nigellus; thorax vittis, abdomen maculis albis; alæ nigro maculatæ.

Tabanus histrio, *Wied. Auss. Zweifl.* ii. 625, 24.

Cassapawa, Brazil.

280. TABANUS FENESTRATUS.

Fœm. *Testaceus; antennæ rufæ; pedes nigri, tibiis anticis dilatatis; alæ fuscæ, macula apiceque hyalinis.*

Tabanus fenestratus, *Macq. Dipt. Exot.* i. 1, 135, 28, pl. 15, f. 3.

Brazil.

281. TABANUS LIMPIDAPEX.

Badio-fuscanus; antennæ rufo-flavæ; abdomen flavido diaphanum apice fuscum; alæ fuscæ, summo apice limpidæ.

Tabanus limpidapex, *Wied. Auss. Zweifl.* i. 140, 46.
Brazil.

282. TABANUS FUSCIPENNIS.

Lilacino-rubidus; abdomen ferrugineo-fuscanum; alæ fuscæ, excisura lata apicis limpida.

Tabanus fuscipennis, *Wied. Auss. Zweifl.* i. 179, 102.
Brazil.

283. TABANUS GUTTIPENNIS.

Niger; thorax rubido vittatus; abdomen puncto albo; alæ fuscæ, albo guttatæ, apice sublimpidæ.

Tabanus guttipennis, *Wied. Auss. Zweifl.* i. 153, 67.
Brazil.

284. TABANUS PUBESCENS.

Mas. *Luridus, brevis, pubescens; oculi cuprei; palpi fusci; antennæ fuscæ, parvæ, valde arcuatæ, articulo vix dilatato aut angulato; abdomen apice fuscum; pedes nigro-fusci; alæ cinereæ, macula antemedia limpida, stigmate magno fusco.*

Male. Lurid, short, pubescent. Eyes cupreous, bare, composed of small facets. Palpi brown. Antennæ brown, small, much curved; third joint hardly dilated or angular. Abdomen brown towards the tip. Legs blackish brown. Wings gray, with a limpid discal spot before the middle; stigma large, brown, veins black; first branch of the cubital simple, slightly curved and not angular near its base; subanal vein joining the anal very near the border. Halteres brown. Length of the body 3½ lines; of the wings 8 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

285. TABANUS FASCIPENNIS.

Fœm. *Testaceus; abdomen femoraque fusca; alæ fuscæ, basi fascia apiceque hyalinis.*

Tabanus fascipennis, *Macq. Dipt. Exot. Suppl.* 1, 35, 71, pl. 4, f. 1.

Brazil. New Grenada.

286. TABANUS APICALIS.

Rubido-fuscanus; antennæ pallide rufo-flavæ; abdomen dilute flavidum; alæ costa late et fascia lata ante apicem fuscis.

Tabanus apicalis, *Wied. Auss. Zweifl.* i. 142, 49.

Brazil.

287. TABANUS POTATOR.

Intense rubidus; thorax utrinque fusco vittatus; abdomen maculis trigonis albis; alæ fascia irregulari maculisque nigro-fuscis.

Tabanus potator, *Wied. Auss. Zweifl.* i. 149, 60; ii. 624, 22.

Brazil.

288. TABANUS PICTIPENNIS.

Nigricans; antennæ articulo 1o elongato; 3o dente longa apice obtusa; thorax vittis tribus flavescentibus, scutello postice flavo; abdomen angustum, segmentis flavo lineatis; tibiæ basi albæ; alæ margine externo, vittis duabus fasciaque fuscis conjunctis.

Tabanus pictipennis, *Macq. Hist. Nat. Dipt.* i. 199, 7.

Brazil.

289. TABANUS TRIANGULUM.

Fuscus; antennæ rufo-flavæ, apice nigræ; abdomen ferruginosum, fulvido trivittatum, triangulo baseos nigro.

Tabanus triangulum, *Wied. Auss. Zweifl.* i. 143, 52.

Brazil.

290. TABANUS TRIGONOPHORUS.

Fœm. *Niger; antennæ basi testaceæ; thoracis latera rufescentia; abdomen testaceum, basi nigrum; pedes testacei; alæ flavescentes.*

Tabanus trigonophorus, *Macq. Dipt. Exot.* i. 2, 185.
Brazil.

291. TABANUS VARIVENTRIS.

Fœm. *Niger; abdomen testaceum, maculis dorsalibus ventreque nigris; tibiæ fuscæ, posticæ ciliatæ; alæ flavescenti-cinereæ.* Long. 6 lin.

Tabanus variventris, *Macq. Dipt. Exot. Suppl.* 2, 18, 97.
Brazil.

292. TABANUS FESTIVUS.

Ater; abdomen imo basi et marginibus lateralibus sulphureis; ventre medio fulvo; alæ nigræ; tibiæ posticæ niveo ciliatæ.

Tabanus festivus, *Wied. Auss. Zweifl.* i. 135, 37.
Brazil.

293. TABANUS COMPACTUS.

Fœm. *Niger; caput et pectus subtus cano tomentosa; antennæ furcatæ, articulo 3o basi rufo; thoraxfulvo pilosus, lateribus ferrugineis; abdomen segmenta cano marginata; trochanteres, femora basi, genua, tibiæ mediæ tarsique posteriores fulva; tibiæ anticæ posticæque nigro-ciliatæ, hæ dilatatæ basi albo-ciliatæ, illæ subdilatatæ; alæ cinereæ, antice subluridæ.*

Fem. Black. Head beneath with hoary tomentum and hairs; front with tawny hairs on each side. Eyes æneous, with very small facets. Antennæ stout; first and second joints with hoary down; third red at the base, armed with a long stout curved horn. Thorax ferruginous along each side, slightly clothed with tawny hairs. Pectus with hoary hairs and tomentum. Abdomen with a band of

hoary hairs on the hind border of each segment. Legs stout, with hoary hairs; trochanters, femora at the base, knees, middle tibiæ and posterior tarsi tawny; fore tibiæ slightly dilated, slightly fringed with black hairs; hind tibiæ dilated, fringed with black hairs and towards the base with white hairs; tarsi short and stout. Wings slightly lurid, gray along the hind borders and towards the tips; veins tawny, black towards the borders; first branch of the cubital vein simple, forming a very obtuse and rounded angle near its base; externo-medial veins separate; subanal vein united to the anal at a short distance from the border. Halteres tawny, with white knobs. Length of the body 6 lines; of the wings 10 lines.

a. Ega, on the Amazon. From Mr. Bates' collection.

294. TABANUS ANTARCTICUS.

Oculi quadrifasciati; scutellum macula nigra; abdomen maculis dorsalibus albis; tibiæ anticæ albæ; alæ albæ, costa fusca.

Tabanus antarcticus, *Linn. Syst. Nat.* ii. 1001, 15. *Fabr. Ent. Syst.* iv. 369, 31. *Wied. Auss. Zweifl.* i. 577, 7.

South America.

Africa.

295. TABANUS CERBERUS.

Tabanus cerberus, *Cat. of Diptera*, Pt. 1, 149.

296. TABANUS CONFORMIS.

Tabanus conformis, *Cat. of Diptera*, Pt. 1, 150.

297. TABANUS PLUTO.

Tabanus Pluto, *Cat. of Diptera*, Pt. 1, 153.

298. TABANUS HEBES.

Tabanus hebes, *Cat. of Diptera*, Pt. 1, 159.

299. TABANUS SOCIUS.

Tabanus socius, *Cat. of Diptera*, Pt. 1, 160.

300. TABANUS RUBICUNDUS.

Tabanus rubicundus, *Cat. of Diptera*, Pt. 1, 161.

301. TABANUS SECEDENS.

Tabanus tibialis, (nomen bis lectum), *Cat. of Diptera*, Pt. 1, 162.

302. TABANUS MACROPS.

Tabanus macrops, *Cat. of Diptera*, Pt. 1, 164.

303. TABANUS STIGMA.

Tabanus stigma, *Cat. of Diptera*, Pt. 1, 184.

304. TABANUS NOCTIS.

Tabanus Noctis, *Diptera Saundersiana*, Pt. 1, 42.

305. TABANUS PERVASUS.

Tabanus pervasus, *Diptera Saundersiana*, Pt. 1, 43.

306. TABANUS DIURNUS.

Tabanus diurnus, *Diptera Saundersiana*, Pt. 1, 43.

307. TABANUS ALBIPALPUS.

Tabanus albipalpus, *Diptera Saundersiana*, Pt. 1, 44

308. TABANUS SOCIALIS.

Tabanus socialis, *Diptera Saundersiana*, Pt. 1, 45.

309. Tabanus infans.

Tabanus infans, *Diptera Saundersiana*, Pt. 1, 45.

310. Tabanus siccus.

Tabanus siccus, *Diptera Saundersiana*, Pt. 1, 46.

A. Tibiæ non dilatatæ nec ciliatæ.
  A. Alæ unifasciatæ.
    a. Alæ hyalinæ, fascia fusca. - - - fasciatus, *Fabr.*
    b. Alæ fuscæ, fascia hyalina. - - - fallax, *Macq.*
  B. Alæ nigro-fuscæ, guttis tribus limpidis. tripunctifer, *Walk.*
  C. Alæ confertissime maculatæ. - maculatissimus, *Macq.*
  D. Alæ striga fusca.
  E. Alæ macula fuscana. - - - - macularis, *Fabr.*
  F. Alæ nec fasciatæ, nec maculatæ. - - tomentosus, *Macq.*
    a. Corpus nigrum.
      a. Alæ limpidæ.
        i. Alæ unicolores.
          * Femora cinerea. - - - lunatus, *Fabr.*
          ** Femora nigra.
            † Abdomen non vittatum. - capensis. *Wied.*
            †† Abdomen bivittatum. obliquemaculatus, *Macq.*
          *** Femora rufa.
            † Abdominis latera testacea. sagittarius, *Macq.*
            †† Abdominis latera non testacea. tæniatus, *Macq.*
        ii. Alæ basi et ad costam flavescentes.
          * Pedes rufi. - - - - Rousselii, *Macq.*
          ** Tibiæ posticæ fulvæ. - - mitidjensis, *Macq.*
      b. Alæ subhyalinæ.
        i. Pedes rufi. - - - - tenuicornis, *Macq.*
        ii. Pedes nigri; tibiæ flavescentes. - villosus, *Macq.*
        iii. Pedes flavi; femora nigra. - infestans, *Macq.*
      c. Alæ subcinereæ.
        i. Abdominis latera non testacea. auripunctatus, *Macq.*
        ii. Abdominis latera testacea. - subelongatus, *Macq.*
      d. Alæ rufescentes. - - - - tibialis, *Macq.*
      e. Alæ fuscæ.
        i. Abdomen nigro pubescens. - Alexandrinus, *Wied.*
        ii. Abdomen basi albido pubescens. Algirus, *Macq.*

f. Alæ nigræ. - - - - - biguttatus, *Wied.*
B. Thorax niger.
i. Abdomen fulvum.
* Abdomen maculis dorsalibus nigris.
dorsomaculatus, *Macq.*
** Abdomen vitta dorsali albida. dorsivitta, *Walk.*
ii. Abdomen fuscum.
* Abdomen fulvo vittatum. - fraternus, *Macq.*
** Abdomen fulvo non vittatum. - nanus, *Wied.*
C. Thorax cæruleo-niger. Abdomen testaceum.
testaceiventris, *Macq.*
D. Thorax glaucescens. Abdomen flavidum, e maculis quadrivittatum. - - - - - - agrestis, *Wied.*
E. Corpus nigro-fuscum. - - unimaculatus, *Macq.*
F. Corpus fuscum quadrivittatum.
i. Antennæ apice nigræ. - - tæniola, *Pal. Beauv.*
ii. Antennæ nigræ. - - - rufipes, *Pal. Beauv.*
G. Thorax schistaceus. Abdomen nigro-fuscum.
vittatus, *Fabr.*
H. Thorax rubidus. Abdomen fuscum. - sugens, *Wied.*
I. Thorax piceus. Abdomen ferrugineum. - ustus, *Walk.*
J. Thorax viridiglaucus. Abdomen fulvum.
thoracinus, *Pal. Beauv.*
K. Corpus cinerascens. Abdominis latera lutea.
L. Corpus cinereum. - - - - agricola, *Wied.*
i. Abdomen fuscanum, flavido bifasciatum.
albicans, *Macq.*
ii. Abdomen rufum. - - - - rufipes, *Macq.*
M. Thorax cervinus. Abdomen fulvum. - - par, *Walk.*
N. Thorax albicans. Abdomen fuscum. Guineensis, *Wied.*
O. Corpus albicans. - - - - albicans, *Macq.*
B. Tibiæ ciliatæ. - - - - - - - cilipes, *Macq.*
C. Tibiæ dilatatæ. - - - - - - latipes, *Macq.*

311. Tabanus fasciatus.

Subhelvus; abdomen glandicolor; alæ fascia fusca.

Tabanus fasciatus, *Fabr. Syst. Ent.* 188, 3; *Ent. Syst.* iv. 364, 8; *Syst. Antl.* 94, 6. *Wied. Dipt. Exot.* i. 73, 21; *Auss. Zweifl.* i. 133, 35.

Sierra Leone.

312. Tabanus fallax.

Testaceus; antennæ fulvæ; pedes nigri, tibiæ fulvæ; alæ fuscæ, fascia hyalina.

Tabanus fallax, *Macq. Dipt. Exot. Suppl.* 1, 32, 63.

Caffraria.

313. Tabanus tripunctifer.

Niger, nigro hirtus; caput album; thorax fulvo pubescens; alæ nigro-fuscæ, guttis tribus limpidis, apice cinereæ.

Tabanus tripunctifer, *Walk. Zool.* viii. *Append.* xcv.

a. Port Natal. From M. Gueinzius' collection.

314. Tabanus maculatissimus.

Niger; antennæ rufæ, apice fuscæ; thorax et abdomen albo maculata hoc apice rufum; pedes albicantes; alæ nigricantes albo maculatæ; basi apiceque albæ nigro maculatæ.

Tabanus maculatissimus, *Macq.*

South Africa.

315. Tabanus macularis.

Fuscus; thorax albido quadrivittatus; abdomen maculis lateralibus albidis; tibiæ rufescentes; alæ albidæ, striga fusca.

Tabanus macularis, *Fabr. Syst. Antl.* 103, 43; *Ent. Syst.* iv. 370, 36; *Meig. Zweifl.* ii. 40, 13. *Wied. Dipt. Exot.* i, 88, 46; *Auss. Zweifl.* i. 167, 86.

Morocco.

316. Tabanus tomentosus.

Niger, tomentosus; oculi hirsuti; abdomen incisuris flavidis; tibiæ fulvæ; alæ basi flavæ, macula fuscana.

Tabanus tomentosus, *Macq. Dipt. Exot. Suppl.* 1, 30, 60, pl. 3, f. 11. *Exped. Scient. Alg. Ins.* 424, 30, pl. 1, f. 7.

Algiers.

317. Tabanus lunatus.

Niger; thorax albido quinquevittatus; abdomen maculis mediis trigonis albidis lateralibusque testaceis; pedes testacei, femoribus cinereis; alæ albidæ.

Tabanus lunatus, *Fabr. Ent. Syst.* iv. 370, 34. *Coqueb. Ill. Icon.* 112, pl. 25, f. 5. *Wied. Auss. Zweifl.* i. 576, 6.
Hæmatopota lunata, *Fabr. Syst. Antl.* 109, 7.

Barbary. Portugal.

318. Tabanus capensis.

Niger, flavido hirtus; abdomen basi utrinque ferruginosum, incisuris flavidis fulvo pilosis; tibiæ ochraceo-fuscæ.

Tabanus capensis, *Wied. Dipt. Exot.* i. 91, 51; *Auss. Zweifl.* i. 177, 100.

Cape.

319. Tabanus obliquemaculatus.

Fœm. *Niger; abdomen maculis lateralibus albis obliquis, lateribus basi rufis; tibiæ flavæ; alæ limpidæ, venæ cubitalis ramo 1o furcato.*

Tabanus obliquemaculatus, *Macq. Dipt. Exot.* i. 1, 123, 4.

Cape

320. Tabanus sagittarius.

Fœm. *Niger; caput antice flavescente-cinereum; abdominis latera testacea, segmento singulo macula dorsali nigricante; pedes rufi; alæ hyalinæ.*

Tabanus sagittarius, *Macq. Dipt. Exot.* i. 1, 123, 5.

Cape.

321. TABANUS TÆNIATUS.

Nigricans; antennæ basi fulvæ; thorax lineis duabus glaucescentibus; abdomen vittis duabus albicantibus angustis apice conjunctis; pedes fulvi; alæ limpidæ.

Tabanus tæniatus, *Macq. Hist. Nat. Dipt.* i. 207, 35.

Cape.

322. TABANUS ROUSSELII.

Fœm. *Nigricans; antennæ rufæ, apice fuscæ; thorax albido vittatus; abdomen trifariam albido fasciatum; pedes rufi; alæ hyalinæ, basi et ad costam flavescentes, venæ cubitalis ramus 1us furcatus.*

Tabanus Rousselii, *Macq. Dipt. Exot.* i. 2, 181; *Exped. Scient. Alg. Zool.* iii. 423, 23.

Algiers.

323. TABANUS METIDJENSIS.

Mas. *Nigricans, albido pilosus; antennæ nigræ; oculi albido villosi; abdominis incisuræ albidæ, lateribus basi fulvis; tibiæ posterioræ fulvæ; alæ basi et costa flavescentes.*

Tabanus metidjensis, *Macq. Dipt. Exot.* i. 2, 182; *Exped. Scient. Alg. Zool.* iii. 423, 25.

Algiers.

324. TABANUS TENUICORNIS.

Fœm. *Niger; oculi hirsuti; antennæ tenues, rufæ, apice nigræ; abdomen incisuris albis; pedes rufi; alæ subhyalinæ, venæ cubitalis ramus 1us simplex.*

Tabanus tenuicornis, *Macq. Dipt. Exot.* i. 1, 124, 7.

Allied to T. capensis, *Wied.*

Cape.

325. Tabanus villosus.

Mas. *Niger, flavido villosus; oculi albido villosi; abdomen incisuris albidis; tibiæ flavescentes; alæ subhyalinæ, basi et ad costam flavescentes.*

Tabanus villosus, *Macq. Dipt. Exot.* i. 2, 181; *Exped. Scient Alg. Zool.* iii. 423, 24.

Algiers.

326. Tabanus infestans.

Fœm. *Niger, albido pubescens; abdominis incisuræ flavidæ; pedes flavi, femoribus nigris; alæ subhyalinæ, basi costaque flavescentes.*

Tabanus infestans, *Macq. Dipt. Exot. Suppl.* 2, 45, 90.

Algiers.

327. Tabanus auripunctatus.

Fœm. *Ater; thorax cinereo pubescens; abdomen nitidum, punctis incisurisque posticis auratis; tibiæ flavæ; alæ subcinereæ, basi et ad costam flavescentes.*

Tabanus auripunctatus, *Macq. Dipt. Exot.* i. 2, 180; *Exped. Scient. Alg. Zool.* iii. 422, 21.

Algiers.

328. Tabanus subelongatus.

Fœm. *Longus, nigricans; antennæ testaceæ, apice nigræ; thorax lineis albidis; abdomen vitta laterali albida, lateribus testaceis; tibiæ fulvæ; alæ subcinereæ.*

Tabanus subelongatus, *Macq. Dipt. Exot. Suppl.* 1, 31, 62.

Caffraria.

329. Tabanus tibialis.

Mas. *Ater, pilis nigris; thorax vittis cinereis; tibiæ basi albæ; alæ rufescentes, apice hyalinæ.*

Tabanus tibialis, *Macq. Dipt. Exot. Suppl.* 1, 30, 59; *Exped. Scient. Alg. Zool.* iii. 423, 26, pl. 1, f. 6.

Algiers.

330. Tabanus alexandrinus.

Tabanus alexandrinus, *Wied. Auss. Zweifl.* i. 624, 23.

Niger, nitens, nigro pubescens; alæ fuscæ.

Alexandria.

331. Tabanus algirus.

Ater, nitidus; antennæ articulo 3o basi fusco, dente minuto; abdomen basi albido pubescens, apice flavo limbatum; alæ fuscanæ.

Tabanus algirus, *Macq. Dipt. Exot.* i. 2, 180; *Exped. Scient. Alg. Zool.* iii. 422, 22.

Algiers.

332. Tabanus biguttatus.

Niger; abdomen guttis binis albis; alæ nigræ.

Tabanus biguttatus, *Wied. Auss. Zweifl.* ii. 623, 20.

Cape.

333. Tabanus dorso-maculatus.

Fœm. *Niger; abdomen fulvum, maculis dorsalibus nigris, incisuris albidis; alæ hyalinæ, basi costaque flavescentibus.*

Tabanus dorso-maculatus, *Macq. Dipt. Exot. Suppl.* 2, 46, 91.

Algiers.

334. Tabanus dorsivitta.

Fœm. *Niger, subtus albido tomentosa; caput ferrugineum; oculi æneï; palpi albidi; antennæ ferrugineæ, parvæ, arcuatæ, vix dilatatæ, apice nigræ; thoracis latera fulvus; abdomen fulvum, vitta testacea ferrugineo marginata basi cinerea, apice piceum; tibiæ fulvæ; alæ cinereæ.*

Fœm. Black. Head ferruginous, with white tomentum and down in front and beneath. Eyes æneous, bare, composed of very small facets. Palpi whitish. Antennæ ferruginous, small, curved, black towards the tips; third joint hardly dilated, but forming

a small, slightly acute angle. Thorax tawny along each side. Pectus with whitish tomentum. Abdomen tawny, with a broad ferruginous stripe, which encloses a pale testaceous stripe; the latter is cinereous at the base; tip piceous. Tibiæ tawny. Wings grayish; veins black; cubital vein simple, forming an obtuse angle near its base; subanal joining the anal at some distance from the border. Length of the body 6 lines; of the wings 11 lines.

a. Gambia.

335. Tabanus fraternus.

Fœm. *Niger; thorax vittis rubris; abdomen fuscum, maculis dorsalibus albis, vittis lateralibus fulvis; tibiæ testaceæ; alæ subhyalinæ.*

Tabanus fraternus, *Macq. Dipt. Exot. Suppl.* 1, 31, 61.

Caffraria.

336. Tabanus nanus.

Nigellus; antennæ luteæ apice nigræ; abdomen fuscum, trifariam maculatum, maculis mediis incisurisque albidis; tibiæ tarsique ochraceæ; alæ limpidæ.

Tabanus nanus, *Wied. Dipt. Exot.* i. 95, 57; *Auss. Zweifl.* i. 187, 114.

Cape.

337. Tabanus testaceiventris.

Fœm. *Cæruleo-niger; antennæ pedesque nigra, illæ basi, abdomen tibiæque testacea; alæ subfuscæ.*

Tabanus testaceiventris, *Macq. Dipt. Exot. Suppl.* 2, 46, 92.

Africa.

338. Tabanus agrestis.

Glaucescens; antennæ basi saltem flavæ; abdomen flavidum, maculis fuscanis quadrivittatum; pedes flavi; alæ limpidæ.

Tabanus agrestis, *Wied. Auss. Zweifl.* i. 557, 32.

Egypt.

339. TABANUS UNIMACULATUS.

Nigro-fuscus; antennæ nigræ; thorax lineis albicantibus; abdominis segmenta 3um et 4um quidque macula alba; pedes nigri; alæ nigricantes, apice hyalinæ.

Tabanus unimaculatus, *Macq. Hist. Nat. Dipt.* i. 204, 23.

Senegal.

340. TABANUS TÆNIOLA.

Cinereo-fuscus, subtus villosus; antennæ apice nigræ; thorax lineis quatuor, abdomen tribus, cinereis; tibiæ anticæ albidæ; alæ rubidæ.

Tabanus tæniola, *Pal. Beauv. Ins.* 56, pl. 1, f. 6. *Wied. Dipt. Exot.* i. 71, 17; *Auss. Zweifl.* i. 129, 28.

Owar and Benin, Africa.

341. TABANUS RUFIPES.

Fuscus; antennæ, tibiæ tarsique nigra; palpi, alæ femoraque fuscana.

Tabanus rufipes, *Pal. Beauv. Ins.* 55, pl. 1, f. 1. *Wied. Auss. Zweifl.* i. 116, 5.

Owar, Africa.

342. TABANUS VITTATUS.

Schistaceus; antennæ articulo 3o fulvo; thorax fusco trivittatus; abdomen nigro-fuscum, vittis duabus albidis; pedes flavi, femoribus cinereis; alæ subcinereæ.

Tabanus vittatus, *Fabr. Ent. Syst.* iv. 371, 37; *Syst. Antl.* 103, 44. *Meig. Zweifl.* ii. 40, 14.

Morocco.

343. TABANUS SUGENS.

Rubidus; antennæ nigræ; abdomen fuscum, albo vittatum.

Tabanus sugens, *Wied. Auss. Zweifl.* i. 140, 45.

Guinea.

344. Tabanus ustus.

Piceus; caput flavum; antennæ rufæ, basi nigræ; thorax fulvo quinquevittatus; abdomen ferrugineum, apice piceum, maculis trigonis fulvis ornatum; pedes ferruginei, tarsis piceis; alæ cinereæ, ad costam fuscæ, venarum marginibus subfuscis.

Tabanus ustus, *Walk. Zool.* viii. *Append.* xcv.

Port Natal. From M. Gueinzius' collection.

345. Tabanus thoracinus.

Fulvus; antennæ luteæ; thorax viridi-glaucus; tarsi fusci; alæ fuscescentes.

Tabanus thoracinus, *Pal. Beauv. Ins.* 55, pl. 1, f. 4. *Wied. Auss. Zweifl.* i. 147, 57.

Owar and Benin, Africa.

346. Tabanus agricola.

Cinerascens; antennæ, abdominis latera et incisuræ pedesque lutea; alæ hyalinæ, venis flavis.

Tabanus agricola, *Wied. Auss. Zweifl.* i. 556, 29.

Coasts of the Red Sea.

347. Tabanus albicans.

Fœm. *Cinereus; antennæ flavæ; abdomen fuscanum, flavido bifasciatum; pedes fulvi; alæ hyalinæ, subflavescentes, venæ cubitalis ramo 1o furcato.*

Tabanus albicans, *Macq. Dipt. Exot.* i. 2, 182.

Arabia. Senegal.

348. Tabanus rufipes. (Nomen bis lectum.)

Fœm. *Rufus; thorax cinereus; alæ hyalinæ, ad costam flavescentes.*

Tabanus rufipes, *Macq. Dipt. Exot.* i. 1, 124, 6.

Cape.

349. Tabanus par.

Fœm. *Fulvus; oculi æneï; palpi testacei; antennæ rufescentes, parvæ, subarcuatæ, simplices, vix dilatatæ; thorax cervino tomentosus; pectus cano tomentosum; alæ subcinereæ, venis fulvis.*

Fœm. Tawny. Head with a small callus in front. Eyes æneous, composed of very small facets. Palpi testaceous. Antennæ reddish, small, slightly curved; third joint hardly dilated, forming a very obtuse angle. Thorax with fawn-colour tomentum. Pectus with hoary tomentum. Wings very slightly grayish; veins tawny; first branch of the cubital vein varying in structure; its angle being either slightly obtuse, sharply defined and rejecting the rudiment of a branch, or more obtuse, somewhat rounded and quite simple; subanal vein joining the anal at some distance from the border. Length of the body 4¼ lines; of the wings 9 lines.

a, b. Port Natal. From M. Gueinzius' collection.

350. Tabanus guineensis.

Fuscus; antennæ rufo-flavæ; thorax albicans; oculi bifasciati; abdomen albo trivittatum; alæ limpidæ.

Tabanus guineensis, *Wied. Anal. Entom.* 21, 7; *Auss. Zweifl.* i. 144, 54.

Guinea.

351. Tabanus albicans. (Nomen bis lectum?)

Albida; antennæ fulvæ; abdomen vitta dorsali cinerea, incisuris pallidis; pedes fulvi; alæ hyalinæ, apud costam flavescentes, venæ cubitalis ramo 1o longe furcato.

Tabanus albicans, *Macq. Hist. Nat. Dipt.* i. 204, 24.

Senegal.

The description of this species differs from that of *T. albicans* in page 234.

352. TABANUS CILIPES.

Mas. *Niger; thorax albido quadrivittatus; abdominis segmenta 3um et 4um albo maculata; tibiæ posticæ ciliatæ; alæ nigricantes, apice cinereæ.*

Tabanus cilipes, *Macq. Dipt. Exot.* i. 1, 120, 2.

Cape. Senegal.

353. TABANUS LATIPES.

Fœm. *Antennæ nigræ; thorax flavus; abdomen rufum; tibiæ anticæ dilatatæ; alæ fuscæ maculis, duabus et apice hyalinis.*

Tabanus latipes, *Macq. Dipt. Exot.* i. 1, 119, 1.

Senegal.

Madagascar.

354. TABANUS ALBITIBIALIS.

Fœm. *Fuscus; antennæ ferrugineæ, apice fuscæ; abdomen maculis dorsalibus, incisuris fasciisque duabus lateralibus albicantibus; pedes rufi, antici nigri; tibiæ parte antica albida, postica nigra.*

Tabanus albitibialis, *Macq. Dipt. Exot.* i. 1, 124, 8.

Isle of France.

355. TABANUS DITÆNIATUS.

Niger; antennæ, abdominis vittæ duæ pedesque rufa; tarsi fusci; tibiæ tarsisque anteriora apice nigricantia; alæ hyalinæ.

Tabanus ditæniatus, *Macq. Dipt. Exot.* i. 1, 126, 9.

Turkey.

356. TABANUS PULVERIFER.

Mas et Fœm. *Fusca, albo tomentosa; palpi albi; antennæ rufæ, parvæ, simplices, apice nigræ; thorax albido quinquevittatus; abdomen vitta dorsali albida maculisque lateralibus trigonis ventreque cervinis; pedes testacei, tarsis nigris.*

Brown. Head with white down and tomentum. Palpi white. Antennæ red, small, black towards the tips; third joint hardly dilated, very obtusely angular above. Thorax with six whitish stripes. Pectus with white tomentum. Abdomen with a whitish dorsal stripe, and on each side with a row of triangular testaceous spots; hind borders of the segments whitish; under side fawn-colour, with white tomentum. Legs testaceous; tarsi black. Wings limpid; veins black; first branch of the cubital vein forming a slightly obtuse angle near its base, and rejecting thence an extremely short branch; subanal vein joining the anal near the border. Halteres white. *Male.*—Head not twice broader than long. Eyes large, red, composed of extremely small facets, with an æneous border, which is much broadest in front. *Female.*—Head more than twice broader than long, with a small black callus in front between the eyes, which are æneous and composed of extremely small facets. Length of the body 5 lines; of the wings 8 lines.

a—d. Bagdad, Turkey in Asia. Presented by W. K. Loftus, Esq.

357. Tabanus polygonus.

Mas. *Fulvus; oculi fulvi, margine nigro-purpureo; palpi albi; antennæ luteo-fulvæ, minutæ, vix dilatatæ, apice nigræ; thorax fusco quadrivittatus; abdomen vitta interrupta nigricante, maculis trigonis dorsalibus marginibusque posticis albidis; alæ limpidæ.* Fœm.? *Oculi nigro-æneï; thoracis vittæ latissimæ; abdominis vittæ latæ integræ; pedes antici tibiis apice nigricantibus, tarsis nigris.*

Male. Tawny, slightly covered with whitish tomentum and down. Head rather large, about twice broader than long. Palpi white. Antennæ very small, luteous tawny, black towards the tips; third joint hardly dilated, forming a slightly obtuse angle. Eyes large, tawny, composed of rather large facets, with a purplish black border, which is composed of extremely small facets and is very broad in front. Thorax with four broad brown stripes; a few black hairs on each side; scutellum brown. Abdomen with a blackish stripe, which is widely interrupted in the middle; each segment whitish along the hind border, and with a whitish dorsal triangular spot. Wings limpid; veins black, tawny towards the base and along the costa; first fork of the cubital simple, hardly angular near its base; subanal vein joining the anal at some distance from the border. Length of the body 7 lines; of the wings 13 lines.

Fem.? Smaller than the male. Head with three small calli between the eyes; first and second elongate; third transverse. Eyes æneous black, composed of extremely small facets. Stripes of the thorax occupying nearly the whole breadth. Stripe of the abdomen broad and uninterrupted; triangular spots rather indistinct. Fore tibiæ blackish towards the tips; fore tarsi black. Length of the body 5½ lines; of the wings 10 lines.

a—c. Bagdad, Turkey in Asia. Presented by W. K. Loftus, Esq.

Arabia

358. TABANUS ARABICUS.

Cinereus; antennæ fulvæ, apice fuscæ; abdominis latera pedesque fulva; tarsi antici fusci; alæ hyalinæ, basi et costa subflavescentes.

Tabanus arabicus, *Macq. Dipt. Exot.* i. 2, 183.

359. TABANUS TESTACEUS.

Testaceus; antennæ apice fuscæ; thorax lineis fuscis, subtus albus; femora fusca.

Tabanus testaceus, *Forskal; Niebuhr. Descr. Anim. Itin. Orient.* 85, 24. *Wied. Auss. Zweifl.* ii. 648, 75.

East Indies, Isles of the Indian Ocean and China.

360. TABANUS UNIVENTRIS.

Tabanus univentris, *Cat. of Diptera*, Pt. 1, 151.

361. TABANUS ORIENTIS.

Tabanus orientis, *Cat. of Diptera*, Pt. 1, 152.

362. TABANUS AURIFLAMMA.

Tabanus auriflamma, *Cat. of Diptera*, Pt. 1, 155.

363. TABANUS INSCITUS.

Tabanus inscitus, *Cat. of Diptera*, Pt. 1, 161.

364. TABANUS MENTITUS.

Tabanus mentitus, *Cat. of Diptera*, Pt. 1, 162.

365. TABANUS SINICUS.

Tabanus sinicus, *Cat. of Diptera*, Pt. 1, 163.

366. TABANUS AMÆNUS.

Tabanus amænus, *Cat. of Diptera*, Pt. 1, 163.

367. TABANUS INTERNUS.

Tabanus internus, *Cat. of Diptera*, Pt. 1, 164.

368. TABANUS JUCUNDUS.

Tabanus jucundus, *Cat. of Diptera*, Pt. 1, 187.

369. TABANUS ALBULUS.

Tabanus albulus, *Diptera Saundersiana*, Pt. 1, 46.

370. TABANUS PYRRHUS.

Tabanus Pyrrhus, *Diptera Saundersiana*, Pt. 1, 47, pl. 2, f. 4, 5.

371. TABANUS ALBIMEDIUS.

Tabanus albimedius, *Diptera Saundersiana*, Pt. 1, 48.

372. TABANUS TENENS.

Tabanus tenens, *Diptera Saundersiana*, Pt. 1, 49.

373. TABANUS HILARIS.

Tabanus hilaris, *Diptera Saundersiana*, Pt. 1, 49, pl. 2, f. 3

374. TABANUS CRASSUS.

Tabanus crassus, *Diptera Saundersiana*, Pt. 1, 50.

375. TABANUS VAGUS.

Tabanus vagus, *Diptera Saundersiana*, Pt. 1, 50.

376. TABANUS RUBIGINOSUS.

Tabanus rubiginosus, *Diptera Saundersiana*, Pt. 1, 51.

377. TABANUS UMBROSUS.

Tabanus umbrosus, *Diptera Saundersiana*, Pt. 1, 52.

378. TABANUS HIRTUS.

Tabanus hirtus, *Diptera Saundersiana*, Pt. 1, 52.

379. TABANUS PUELLA.

Tabanus puella, *Diptera Saundersiana*, Pt. 1, 53.

380. TABANUS SANGUINEUS.

Tabanus sanguineus, *Diptera Saundersiana*, Pt. 1, 54.

381. TABANUS OBCONICUS.

Tabanus obconicus, *Diptera Saundersiana*, Pt. 1, 54.

382. TABANUS FERVIDUS.

Tabanus fervidus, *Diptera Saundersiana*, Pt. 1, 55.

383. Tabanus consocius.

Tabanus consocius, *Diptera Saundersiana*, Pt. 1, 56.

384. Tabanus perlinea.

Tabanus perlinea, *Diptera Saundersiana*, Pt. 1, 56.

385. Tabanus calidus.

Tabanus calidus, *Diptera Saundersiana*, Pt. 1, 57.

A. Alæ non maculatæ.
  A. Corpus nigrum.
    a. Scutellum nigrum.
      a. Abdomen non cærulescens.
        i. Alæ subhyalinæ, apice subfuscæ. - auricinctus, *Macq.*
        ii. Alæ subfulvæ. - - - pusillus, *Macq.*
        iii. Alæ subfuscæ. - - - albilateralis, *Macq.*
        iv. Alæ fuscæ. - - - - tenebrosus, *Walk.*
      b. Abdomen cærulescens. - - cærulescens, *Macq.*
    b. Scutellum ferrugineum. - - - basalis, *Macq.*
  B. Thorax nigro-fuscus. Abdomen nigrum. brunneus, *Macq.*
  C. Thorax fuscus. Abdomen nigrum. consanguineus, *Macq.*
  D. Thorax niger. Abdomen fuscum. - Sumatrensis, *Macq.*
  E. Corpus fuscum.
    a. Abdomen albo marginatum. - - dorsilinea, *Wied.*
    b. Abdomen albo non marginatum.
      a. Femora nigro striata. - - - rubidus, *Wied.*
      b. Femora non striata. - - - - striatus, *Fabr.*
  F. Thorax fuscus. Abdomen rubidum. - rufiventris, *Fabr.*
  G. Corpus cinereum. - - - - - Virgo, *Wied.*
  H. Thorax cinereus. Abdomen subferruginosum. indicus, *Fabr.*
  I. Thorax glaucus. Abdomen ferrugineum. ardens, *Wied.*
  J. Thorax olivaceus. Abdomen ferrugineum. immanis, *Wied.*
  K. Thorax glandicolor. Abdomen fuscum. hybridus, *Wied.*
  L. Thorax fulvus.
    a. Abdomen nigrum.
      a. Abdomen fasciis albis. - - - Servillei, *Macq.*
      b. Abdomen fasciis fulvis. - - Pyrausta, *Walk.*

B. Abdomen ferrugineum. - - - - vagus, *Walk.*
M. Corpus fulvum. Abdomen albido vittatum. megalops, *Walk.*
N. Corpus aurato fulvum. - - - auro-testaceus, *Walk.*
O. Corpus flavidum. - - - - orientalis, *Wied.*
P. Corpus testaceum. Abdomen albido maculatum. rubicundus, *Macq.*
B. Alæ maculatæ. - - - - - Javanus, *Fabr.*

386. TABANUS AURICINCTUS.

Fœm. *Niger; thorax rufo pubescens; abdominis segmentorum latera postica aurata; pedes rufi; alæ subhyalinæ, basi et ad costam fulvæ, apice subfuscæ.*

Tabanus auricinctus, *Macq. Dipt. Exot.* i. 1, 130, 18. pl. 17, f. 2.
Isles of the Indian Ocean.

387. TABANUS PUSILLUS.

Fœm. *Niger; abdomen flavo pilosum, incisuris fulvis; antennæ pedesque fulva; alæ subfulvæ.*

Tabanus pusillus, *Macq. Dipt. Exot.* i. 1, 127, 12.
China.

388. TABANUS ALBILATERALIS.

Fœm. *Niger; oculi hirsuti; thorax lineis lateribusque albis; abdomen maculis dorsalibus incisurisque auratis, segmentorum 1i et 2i lateribus testaceis; pedes rufi; alæ subfuscæ.*

Tabanus albilateralis, *Macq. Dipt. Exot.* i. 1, 129, 17.
Java.

389. TABANUS TENEBROSUS. ✓

Fœm. *Niger, cinereo subtomentosus; oculi æneï; antennæ parvæ, ferrugineæ, simplices, subarcuatæ, articulo 3o basi angulato; thoracis latera subferruginea; tibiæ obscure ferrugineæ; alæ fuscæ, marginibus posticis cinereis.*

Fem. Black, slightly covered with gray tomentum. Eyes æneous, composed entirely of small facets. Palpi black. Antennæ small, ferruginous, simple, slightly curved; third joint with a small and slightly acutely angular process at the base. Sides of the thorax somewhat ferruginous. Tibiæ dark ferruginous. Wings dark brown, dark gray along the hind border; first fork of the cubital vein simple, forming an obtuse and somewhat rounded angle near the base; subanal vein joining the anal at some distance from the border. Halteres black, with ferruginous tips. Length of the body 7½ lines; of the wings 14 lines.

a. Canara, Malabar Coast. Presented by S. N. Ward, Esq.

390. Tabanus cærulescens.

Fœm. *Niger; antennæ thoracisque vittæ laterales testaceæ; abdomen cærulescens; alæ fuscæ.*

Tabanus cærulescens, *Macq. Dipt. Exot.* i. 1, 128, 14.

Java.

391. Tabanus basalis.

Fœm. *Niger; scutellum et abdomen basi ferruginea; tibiæ flavescentes; alæ basi flavidæ apice fuscescentes.*

Tabanus basalis, *Macq. Dipt. Exot.* i. 1, 126, 10.

East Indies.

392. Tabanus brunneus.

Nigro-fuscus; antennæ nigræ; thorax vittis duabus anticis fuscescentibus; abdomen nigrum, maculis dorsalibus albis trigonis guttisque lateralibus flavis, segmentis 1o ad 3um fuscis, ventre flavescente maculis nigris; pedes nigri; alæ fuscescentes.

Tabanus brunneus, *Macq. Hist. Nat. Dipt.* i. 203, 22; *Dipt. Exot* i. 1, 129, 15.

Java.

393. Tabanus consanguineus.

Fœm. *Fuscus; caput pallidum; thorax albido vittatus; abdomen nigrum vittis tribus albis, lateralibus ante apicem interruptis; pedes rufi; alæ hyalinæ.*

Tabanus consanguineus, *Macq. Dipt. Exot.* i. 1, 127, 11.

Allied to T. guineensis, indicus, trilineatus, lineola, occidentalis, trivittatus, dorsiger, 5-vittatus, costalis, and obsoletus.

Malabar.

394. Tabanus Sumatrensis.

Niger; antennæ ferrugineæ; thorax vitta antica fusca; abdomen fuscum, segmentorum marginibus posticis pallidis; pedes fulvi; alæ venis flavis, venæ cubitalis ramo 1o basi rectangulato.

Tabanus Sumatrensis, *Macq. Hist. Nat. Dipt.* i. 201, 16.

Sumatra.

395. Tabanus dorsilinea.

Fuscus; antennæ rufo-flavæ; thorax albo lineatus; abdomen fuscum, margine vittisque tribus albis; alæ limpidæ, venis flavis; pedes flavi.

Tabanus dorsilinea, *Wied. Anal. Ent.* 22, 10; *Auss. Zweifl.* i. 184, 110.

East Indies.

396. Tabanus rubidus.

Lilacino-fuscanus; thorax albido vittatus; abdomen vittis tribus maculatibus albidis.

Tabanus rubidus, *Wied.*

East Indies.

397. Tabanus striatus.

Rubido-fuscanus; thorax albido quadrivittatus; abdomen vittis tribus latis albis; alæ limpidæ.

Tabanus striatus, *Fabr.*

East Indies, Java, and China.

398. Tabanus rufiventris.

Fuscus, albido pruinosus; antennæ nigræ; abdomen rubidum, maculis albis univittatum; alæ costa nigra.

Tabanus rufiventris, *Fabr. Syst. Antl.* 96, 13. *Wied. Dipt. Exot.* i. 66, 9; *Auss. Zweifl.* i. 118, 10.

East Indies.

399. Tabanus Virgo.

Schisticolor; antennæ ferrugineæ; abdomen bifariam albo guttatum.

Tabanus Virgo, *Wied. Anal. Entom.* 22, 9; *Auss. Zweifl.* i. 184, 109.

East Indies.

400. Tabanus indicus.

Cinereus; antennæ ferrugineæ; thorax vix lineatus; abdomen subferrugineum, vittis tribus latis albis.

Tabanus indicus, *Fabr.*

East Indies.

401. Tabanus ardens.

Glaucus, fulvo pubescens; abdomen ferrugineum; pedes fulvi; alæ infumatæ.

Tabanus ardens, *Wied. Dipt. Exot.* i. 78, 31; *Auss. Zweifl.* i 154, 68. *Macq. Dipt. Exot.* i. 1, 129, 16.

Java.

402. Tabanus immanis.

Olivaceus; abdomen ferruginosum, obsolete dilutius vittatum; pedes nigri.

Tabanus immanis, *Wied. Auss. Zweifl.* i. 123, 17.

Java.

403. Tabanus hybridus.

Glandicolor; antennæ fulvæ; thorax lineis duabus pallidioribus indistinctis; abdomen fuscum, vitta flava; pedes fusco-flavi; alæ ad costam fuscanæ.

Tabanus hybridus, *Wied. Auss. Zweifl.* i. 557, 32.

Macao.

404. Tabanus Servillei.

Fœm. *Niger; thorax fulvus; abdominis incisuræ albæ; alæ rufæ, venæ cubitalis ramo 2o venaque externo-media 1a conjunctis.*

Tabanus Servillei, *Macq. Dipt. Exot.* i. 1, 128, 13.

East Indies, Java.

405. Tabanus Pyrausta.

Ferrugineus; palpi, antennæ et pedes nigra; abdomen nigrum, segmentorum marginibus posticis fulvis; alæ fulvæ.

Tabanus Pyrausta, *Walk. Zool.* viii. *Append.* lxv.

a. Java. From Mr. Argent's collection.
b. Java. From the Hon. East India Company's collection.

406. Tabanus vagus.

Fulvus; antennæ et abdomen ferruginea; thorax trivittatus; pedes fulvi; tarsi ferruginei; alæ fuscæ, apicibus marginibusque posticis cinereis.

Tabanus vagus, *Walk. Zool.* viii. *Append.* lxviii.

a. Hong Kong. Presented by J. C. Bowring, Esq.

407. Tabanus megalops.

Mas. *Rufescens; oculi magni, flavi, disco fusco margine æneo; thorax fusco quadrivittatus; pectus testaceum; abdomen vittis tribus lateribusque albidis; pedes fulvi, tarsis fuscis; alæ sublimpidæ.*

Male. Reddish. Head with white tomentum and down beneath. Eyes large, above brown with a yellow border, and composed of rather large facets; outer border æneous, broad in front, and of extremely small facets. Thorax with two brown stripes on each side. Pectus testaceous, with whitish tomentum and down. Abdomen with three dorsal white stripes, the lateral pair indistinct; sides whitish. Legs tawny; tarsi brownish. Wings nearly limpid; veins tawny; cubital vein simple, forming an obtuse angle near the base; subanal joining the anal at some little distance from the border. Length of the body 5½ lines; of the wings 10½ lines.

a. Java. From the East India Company's collection.

408. Tabanus aurotestaceus.

Mas. *Aurato-fulvus, subtus canescens; oculi transverse subcarinati; palpi flavi; antennæ minutæ, subarcuatæ, non dilatatæ nec furcatæ, apice fuscæ; pedes testacei, femoribus basi coxis tarsis femoribusque anticis omnino nigris; alæ subcinereæ.*

Male. Tawny, covered with testaceous slightly gilded tomentum Head and thorax somewhat hoary beneath. Head large. Eyes prominent in front, a little longer than broad, divided into two compartments by a slight transverse ridge; all the facets very small. Palpi pale yellow. Antennæ tawny, very small, very slightly curved, with brown tips; third joint slender, quite simple, with no dilatation or angle. Legs testaceous; coxæ, tarsi, femora at the base and fore femora black. Wings very slightly gray; first branch of the cubital vein simple, forming a slightly obtuse angle very near its base; subanal vein joining the anal at some distance from the border. Halteres tawny, with ferruginous tips. Length of the body 6 lines; of the wings 11 lines.

a. Shang-hai, North China. From Mr. Fortune's collection.

409. TABANUS ORIENTALIS.

Flavidus; thorax fusco vittatus; abdomen postice subfasciatum, vitta maculari albida.

Tabanus orientalis, *Wied. Anal. Entom.* 21, 8; *Auss. Zweifl.* i. 145, 55.

East Indies.

410. TABANUS RUBICUNDUS.

Fœm. *Testaceus; abdomen maculis dorsalibus albidis; pedes testacei, tibiis anticis basi albidis; alæ flavescentes.*

Tabanus rubicundus, *Macq. Dipt. Exot. Suppl.* 1, 32, 64.

Hindostan.

411. TABANUS JAVANUS.

Niger; thorax albo lineatus, lateribus fulvis; abdomen fuscum, lateribus ferrugineis, maculis mediis trigonis albis; alæ fusco maculatæ.

Tabanus Javanus, *Fabr. Syst. Antl.* 103, 46. *Wied. Dipt. Exot.* i. 93, 54; *Auss. Zweifl.* i. 183, 108.

Java.

Australia.

412. TABANUS LEUCOPHILUS.

Tabanus leucophilus, *Cat. of Diptera*, Pt. 1, 154.

413. TABANUS BREVIVITTA.

Tabanus brevivitta, *Cat. of Diptera*, Pt. 1, 157.

414. TABANUS PRÆPOSITUS.

Tabanus præpositus, *Cat. of Diptera*, Pt. 1, 158.

415. TABANUS CINEREUS.

Tabanus cinereus, *Cat. of Diptera*, Pt. 1, 167.

416. TABANUS BASALIS.

Tabanus basalis, *Cat. of Diptera*, Pt. 1, 182.

417. TABANUS NIGRIMANUS.

Tabanus nigrimanus, *Cat. of Diptera*, Pt. 2, 183.

418. TABANUS DIMINUTUS.

Tabanus diminutus, *Cat. of Diptera*, Pt. 1, 183.

419. TABANUS CONSTANS.

Tabanus constans, *Cat. of Diptera*, Pt. 1, 186.

420. TABANUS BREVIOR.

Tabanus brevior, *Cat. of Diptera*, Pt. 1, 188.

421. TABANUS MARGINATUS.

Tabanus marginatus, *Cat. of Diptera*, Pt. 1, 187.

422. TABANUS ERRATICUS.

Tabanus erraticus, *Cat. of Diptera*, Pt. 1, 189.

423. TABANUS ABSTERSUS.

Tabanus abstersus, *Diptera Saundersiana*, Pt. 1, 58.

424. TABANUS INNOTABILIS.

Tabanus innotabilis, *Cat. of Diptera*, Pt. 1, 177.

425. TABANUS REMOTUS.

Tabanus remotus, *Cat. of Diptera*, Pt. 1, 177.

426. TABANUS ANTECEDENS.

Tabanus antecedens, *Cat. of Diptera*, Pt. 1, 178.

427. TABANUS SEQUENS.

Tabanus sequens, *Cat. of Diptera*, Pt. 1, 178.

428. TABANUS IMPERFECTUS.

Tabanus imperfectus, *Cat. of Diptera*, Pt. 1, 179.

429. TABANUS CONCOLOR.

Tabanus concolor, *Cat. of Diptera*, Pt. 1, 179.

430. TABANUS POSTPONENS.

Tabanus postponens, *Cat. of Diptera*, Pt. 1, 179.

431. TABANUS VETUSTUS.

Tabanus vetustus, *Cat of Diptera*, Pt. 1, 179.

A. Alæ non vittatæ nec maculatæ.
  A. Corpus nigrum.
    a. Alæ limpidæ.
      a. Abdomen incisuris albidis. edentulus, *Macq.*
      b. Abdomen fascia testacea. acutipalpis, *Macq.*
      c. Abdomen lateribus rufis. Regis Georgii, *Macq.*
      d. Abdominis segmenta marginibus rufescentibus. exulans, *Erichs.*
      e. Abdominis latera et segmentorum margines rufescentia. gregarius, *Erichs.*
    B. Alæ subcinereæ aut cinereæ.

a. Abdomen incisuris albis. - - nigriventris, *Macq.*
b. Abdomen incisuris flavidis. - - microdonta, *Macq.*
c. Abdomen vittis tribus cinereis. pallipennis, *Macq.*
B. Thorax niger.
A. Abdomen piceum. - - - - antecedens, *Walk.*
B. Abdomen pallidum.
a. Alæ limpidæ. - - - - - posticus, *Wied.*
b. Alæ cinereæ. - - - - Sidneyensis, *Macq.*
C. Corpus cinereo-ferrugineum. - - cinerascens, *King.*
B. Alæ maculatæ.
A. Thorax fuscus. - - - - limbatinensis, *Macq.*
B. Thorax niger. - - - - - gentilis, *Erichs.*
C. Alæ vittatæ.
A. Abdomen nigrum.
A. Thorax non vittatus. - - - - funebris, *Macq.*
B. Thorax albido vittatus. - - - bifasciatus, *Macq.*
B. Abdomen testaceum. - - - rubriventris, *Macq.*
D. Alæ fasciatæ. - - - - - lasiophthalma, *Macq.*

432. Tabanus edentulus.

Fœm. *Niger; oculi hirti; antennæ edentulæ; abdomen incisuris albidis; pedes fusci, tibiis fulvis; alæ hyalinæ, venæ cubitalis ramo antico furcato.*

Tabanus edentulus, *Macq. Dipt. Exot. Suppl.* 1, 34, 68.

Tasmania.

433. Tabanus acutipalpis.

Fœm. *Niger; palpi elongati; oculi hirsuti; antennæ basi abdominisque fasciæ testaceæ; pedes fusci, tibiæ rufæ; alæ hyalinæ, venæ cubitalis ramo 1o furcato.*

Tabanus acutipalpis, *Macq. Dipt. Exot.* i. 1, 131, 20.

King Island, Oceania.

434. Tabanus Regis Georgii.

Fœm. *Niger; oculi hirsuti; abdomen maculis dorsalibus incisurisque albidis, segmentorum 1o ad 4um lateribus rufis; alæ hyalinæ; venæ cubitalis ramo 1o furcato.*

Tabanus Regis Georgii, *Macq. Dipt. Exot.* i. 1, 132, 21.

King George's Port, New Holland.

435. TABANUS EXULANS.

Niger, cinereo pubescens; caput magnum, facie carnea; oculi pubescentes; abdominis segmenta rufescente marginata; tibiæ anteriores rufescente testacea; alæ hyalinæ, venis fuscis.

Tabanus exulans, *Erichson, Archiv. Naturg.* 1842, i. 270, 247, New Holland.

436. TABANUS GREGARIUS.

Niger; cinereo pubescens; oculi pubescentes; palpi pallidi; abdominis latera et segmentorum margines rufescentia; tibiæ basi testaceæ; alæ litura costali nigra.

Tabanus gregarius, *Erichson, Archiv. Naturg.* 1842, i. 271, 248. New Holland.

437. TABANUS NIGRIVENTRIS.

Ater; abdomen incisuris albis; tibiæ testaceæ; alæ cinereæ, venæ cubitalis ramo 1o furcato.

Tabanus nigriventris, *Macq. Dipt. Exot. Suppl.* 1, 34, 69, Sidney Isle.

438. TABANUS MICRODONTA.

Niger; antennæ basi fuscæ, dente parvo; abdomen incisuris flavidis; pedes fusci; alæ subcinereæ, basi et ad costam subfuscescentes.

Tabanus microdonta, *Macq. Dipt. Exot. Suppl.* 2, 17, 94. Tasmania.

439. TABANUS PALLIPENNIS.

Fœm. *Niger; abdomen vittis tribus cinereis; tibiæ fulvæ; alæ subcinereæ, venæ cubitalis ramo 1o furcato.*

Tabanus pallipennis, *Macq. Dipt. Exot. Suppl.* 1, 32, 65. New Holland.

440. Tabanus antecedens.

Fœm. *Niger, palpi testacei; antennæ parvæ, graciles, simplices, vix dilatatæ; thorax cano bivittatus; pectus canum; abdomen piceum, segmentorum marginibus posticis albidis; tibiæ ferrugineæ; alæ subcinereæ.*

Fem.? Black. Head clothed beneath with white tomentum, pale testaceous about the mouth. Palpi pale testaceous, long. Proboscis long. Antennæ small, slender; third joint hardly dilated, very obtusely angular above. Thorax with two hoary stripes; sides and pectus hoary. Abdomen piceous; hind borders of the segments whitish. Tibiæ ferruginous. Wings grayish; veins black; first branch of the cubital vein forming a slightly obtuse angle near its base, and there rejecting a short branch; subanal vein joining the anal near the border. Length of the body 5 lines; of the wings 9 lines.

a. Van Dieman's Land. From Mr. A. J. Smith's collection.

441. Tabanus posticus.

Glaucus; antennæ, pedes et abdomen ferruginea, hoc apice saturatius; alæ limpidissimæ.

Tabanus posticus, *Wied.*

New Holland.

442. Tabanus Sidneyensis.

Fœm. *Niger; abdomen testaceum, albo maculatum; tibiæ testaceæ; alæ cinereæ, venæ cubitalis ramo 1o furcato.*

Tabanus Sidneyensis, *Macq. Dipt. Exot. Suppl.* 1, 33, 66,

Sidney Island.

443. Tabanus cinerascens.

Cinereo-ferrugineus, subtus albescens; abdomen linea media maculisque quatuor utrinque cinereis; alæ hyalinæ, basim versus subluteæ.

Tabanus cinerascens, *King.*

New Holland.

444. TABANUS LIMBATINERVIS.

Fuscus; antennæ rufæ, basi fuscæ, apice nigræ; abdomen rufo-fuscanum, maculis dorsalibus albidis; alæ venulis transversis fusco limbatis, venæ cubitalis ramo 2o venaque externo-mediana 1a conjunctis.

Tabanus limbatinervis, *Macq. Dipt. Exot. Suppl.* 2, 16, 93.

Tasmania.

445. TABANUS GENTILIS.

Testaceus; antennæ apice fuscæ; thorax et abdominis dorsum nigra, hoc segmentorum margine medio sinuato testaceo; tarsi fusci; alæ fusco maculatæ.

Tabanus gentilis, *Erichson, Archiv. Naturg.* 1842, i. 271, 249.

New Holland.

446. TABANUS FUNEBRIS.

Fœm. *Niger; alæ pallidæ, venis fusco limbatis, venæ cubitalis ramo 1o furcato.*

Tabanus funebris, *Macq. Dipt. Exot. Suppl.* 1, 33, 67, pl. 3, f. 12.

New Holland.

447. TABANUS BIFASCIATUS.

Niger; antennæ articulo 3o basi testaceo; thorax albido bilineatus et bivittatus; abdominis segmenta albido marginata; alæ fuscescentes, venis fusco limbatis, areolis apud discos sub-hyalinis, venæ cubitalis ramo 2o venaque externo-mediana 1a conjunctis.

Tabanus bifasciatus, *Macq. Hist. Nat. Dipt.* i. 201, 17.

New Holland.

448. TABANUS RUBRIVENTRIS.

Fœm. *Antennæ pedesque rufa; thorax niger rufo pubescens; abdomen testaceum; alæ basi rufescentes, venis rufo marginatis.*

Tabanus rubriventris, *Macq. Dipt. Exot.* ii. 1, 131, 19.

Offack, New Guinea.

New Zealand.

449. TABANUS IMPAR.

Mas. *Niger; antennæ basi fulvæ; thoracis latera ferruginea; abdomen ferrugineum, vitta brevi dorsali fasciisque nigris, necnon fasciis flavis et maculis trigonis fulvis ornatum; tibiæ fulvæ; tarsi picei; alæ cinereæ.* Fœm.?—*Fuscus; thoracis latera et vittæ tres fulva; pectus canum; abdomen fulvum, apice piceum; pedes fulvi.*

Tabanus impar, *Walk. Zool.* viii. *Append.* lxxi.

a, b. New Zealand. Presented by Col. Bolton.

450. TABANUS SARPA.

Fuscus; thoracis vittæ quatuor et pectus cana; abdomen piceum, ventre cano segmentorum marginibus posticis fulvis; pedes fulvi, femoribus cinereis, tarsis nigris; alæ subcinereæ.

Tabanus Sarpa, *White, MSS. Walk. Zool.* viii. *Append.* lxx.

451. TABANUS TRUNCATUS.

Fuscus; antennæ nigræ, basi piceæ; thorax cinereo trivittatus, lateribus pectoreque canis; abdomen cinereum, fasciis subinterruptis fuscis ornatum; pedes fulvi, femoribus tarsisque anticis nigris; alæ cinereæ, basi et ad costam subfulvæ.

a—d. Auckland, New Zealand. Presented by Col. Bolton.
e. New Zealand.

452. TABANUS OPLUS.

Mas. *Fuscus; antennæ pedesque fulva; pectus canum; abdomen ferrugineum, vitta interrupta nigra; tarsi fusci; alæ subcinereæ.*

Tabanus Oplus, *White, MSS. Walk. Zool.* viii. *Append.* lxx.

a—c. Auckland, New Zealand. Presented by Col. Bolton.

453. Tabanus sordidus.

Niger; caput cano tomentosum; thorax cano trivittatus; abdomen fulvum, vitta dorsali basi apiceque nigris, segmentorum marginibus posticis testaceis; tibiæ posteriores fulvæ; alæ cinereæ, venis nigris fusco nebulosis.

Fem. Has much resemblance to *T. recedens.* Black. Head clothed with hoary tomentum and down. Palpi tawny. Thorax with three hoary stripes, clothed with hoary hairs; a few black hairs on each side and a ferruginous callus before each wing. Abdomen tawny, with a black stripe, which is interrupted on the hind border of each segment, and is dilated at the base and towards the tip; hind borders of the segments testaceous. Posterior tibiæ tawny. Wings gray; veins black, clouded with brown; first branch of the cubital vein simple, hardly angular near the base; subanal joining the anal at some distance from the base. Halteres tawny. Length of the body 6½ lines; of the wings 13 lines.

a. New Zealand. Presented by Col. Bolton.

454. Tabanus transversus.

Mas et Fœm. *Testaceus; antennæ fulvæ, parvæ, subarcuatæ, apice nigræ; thorax fusco quadrivittatus; abdomen supra fuscum, vitta dorsali et segmentorum marginibus posticis testaceis; tarsi fuscescentes; alæ subcinereæ.*

Male and Fem. Testaceous. Head and thorax with white tomentum beneath. Antennæ tawny, small, slightly curved, with black tips; third forming an obtuse angle above. Thorax with four brown stripes. Abdomen brown above, excepting a dorsal stripe and the hind borders of the segments. Tarsi brownish. Wings grayish; veins tawny; stigma brown; transverse veinlets black; first branch of the cubital vein simple; subanal vein joining the anal close to the border. Length of the body 3½—4 lines; of the wings 8—9 lines.

a—d. Auckland, New Zealand. Presented by Col. Bolton.

Sandwich Islands

455. Tabanus insularis.

Tabanus insularis, *Cat. of Diptera*, Pt. 1, 184.

Country unknown.

456. TABANUS OPULENTUS.

Tabanus opulentus, *Cat. of Diptera*, Pt. 1, 148.

457. TABANUS FORMOSUS.

Tabanus formosus, *Cat. of Diptera*, Pt. 1, 148.

458. TABANUS MICROCERUS.

Tabanus microcerus, *Cat. of Diptera*, Pt. 1, 150.

459. TABANUS FULVIMEDIUS.

Tabanus fulvimedius, *Cat. of Diptera*, Pt. 1, 152.

460. TABANUS FLAMMANS.

Tabanus flammans, *Cat. of Diptera*, Pt. 1, 153.

461. TABANUS AMABILIS.

Tabanus amabilis, *Cat. of Diptera*, Pt. 1, 154.

462. TABANUS CHRYSOPHILUS.

Tabanus chrysophilus, *Cat. of Diptera*, Pt. 1, 155.

463. TABANUS DIVES.

Tabanus dives, *Cat. of Diptera*, Pt. 1, 166.

464. TABANUS DEPRESSUS.

Tabanus depressus, *Cat. of Diptera*, Pt. 1, 167.

465. TABANUS INCONSPICUUS.

Tabanus inconspicuus, *Cat. of Diptera*, Pt. 1, 171.

466. TABANUS TRANSIENS.

Tabanus transiens, *Cat. of Diptera*, Pt. 1, 174.

467. TABANUS PRISCUS.

Tabanus priscus, *Cat. of Diptera*, Pt. 1, 176.

468. TABANUS ALBILINEA.

Tabanus albilinea, *Cat. of Diptera*, Pt. 1, 176.

469. TABANUS FINALIS.

Tabanus apicalis (nomen bis lectum), *Cat. of Diptera*, Pt. 1, 176.

470. TABANUS CÆSIUS.

Tabanus cæsius, *Cat. of Diptera*, Pt. 1, 180.

471. TABANUS SECUNDUS.

Tabanus secundus, *Cat. of Diptera*, Pt. 1, 180.

472. TABANUS NEPOS.

Tabanus nepos, *Cat. of Diptera*, Pt. 1, 181.

473. TABANUS CIRCUMDATUS.

Tabanus circumdatus, *Cat. of Diptera*, Pt. 1, 185.

474. TABANUS ARGENTIFRONS.

Tabanus argentifrons, *Cat. of Diptera*, Pt. 1, 186.

475. TABANUS LIGATUS.

Tabanus ligatus, *Diptera Saundersiana*, Pt. 1, 59.

476. TABANUS SEQUENS.

Tabanus sequens, *Diptera Saundersiana*, Pt. 1, 60.

477. TABANUS JANUS.

Tabanus Janus, *Diptera Saundersiana*, Pt. 1, 61.

478. TABANUS PLANUS.

Tabanus planus, *Diptera Saundersiana*, Pt. 1, 61.

479. TABANUS CONNEXUS.

Tabanus connexus, *Diptera Saundersiana*, Pt. 1, 62.

480. TABANUS CONTACTUS.

Tabanus contactus, *Diptera Saundersiana*, Pt. 1, 63.

481. TABANUS HISPIDUS.

Tabanus hispidus, *Diptera Saundersiana*, Pt. 1, 63.

482. TABANUS VARIATUS.

Tabanus variatus, *Diptera Saundersiana*, Pt. 1, 64.

483. TABANUS HONESTUS.

Tabanus honestus, *Diptera Saundersiana*, Pt. 1, 64.

484. TABANUS FULVIGER.

Tabanus fulviger, *Diptera Saundersiana*, Pt. 1, 65.

485. Tabanus rufoniger.

Tabanus rufoniger, *Diptera Saundersiana*, Pt. 1, 66.

486. Tabanus redactus.

Tabanus redactus, *Diptera Saundersiana*, Pt. 1, 66.

487. Tabanus senior.

Tabanus senior, *Diptera Saundersiana*, Pt. 1, 67.

A. Corpus nigrum.
  A. Scutellum nigrum.
    a. Alæ hyalinæ.
      a. Pedes nigri.
        i. Tibiæ fuscanæ. - - - - - nigricans, *Wied.*
        ii. Tibiæ fulvæ.
          * Thorax non vittatus. - - dubius, *Macq.*
          ** Thorax vittatus. - - albivittatus, *Macq.*
        iii. Tibiæ albidæ. - - - trifasciatus, *Macq.*
      b. Pedes fusci. - - - - - difficilis, *Wied.*
      c. Pedes lutei. - - - - - ditænia, *Wied.*
      d. Pedes flavi, femoribus fulvis. - fulvifasciatus, *Macq.*
    b. Alæ fuscæ. - - - - - macula, *Macq.*
  B. Scutellum testaceum. - - - scutellatus, *Macq.*
B. Thorax niger.
  A. Abdomen aurantiacum. - - - - Megerlei, *Wied.*
  B. Abdomen fulvum. - - - - advena, *Walk.*
C. Thorax fuscus. Abdomen cyaneo-nigrum. macrodonta, *Macq.*
D. Corpus nigro-fuscum. - - - - gigas, *Macq.*
E. Corpus fuscum.
  A. Alæ subcinereæ. - - - - incertus, *Macq.*
  B. Alæ subrufescentes. - - - - fusconervosus, *Macq.*
  C. Alæ subrufofuscæ. - - - - longipennis, *Macq.*
F. Thorax castaneus. Abdomen fuscum. - fuscinervis, *Macq.*
G. Thorax rufus. Abdomen apice piceum. - fenestratus, *Walk.*
H. Thorax rubescens. Abdomen castaneum. castaneoventris, *Macq.*
I. Thorax ferrugineus. Abdomen flavum. - brevivitta, *Macq.*
J. Thorax testaceus.

A. Abdomen ferrugineum. - - - lativentris, *Macq.*
B. Abdomen fulvum. - - - lagenaferus, *Macq.*
K. Corpus canum. - - - - - - Fullo, *Walk.*
L. Corpus ochraceum, flavum aut testaceum.
A. Alæ flavescentes. - - - - - ochraceus, *Macq.*
B. Alæ limpidæ.
a. Abdomen bivittatum. - - - lineola, *Pal. Beauv.*
b. Abdomen univittatum. - - - elongatus, *Wied.*

488. Tabanus nigricans.

Nigellus; abdomen punctis albo pilosis; tibiæ fuscanæ; alæ limpidæ, costa parum fuscana.

Tabanus nigricans, *Wied. Auss. Zweifl.* i. 157, 72.

489. Tabanus dubius.

Fœm. *Niger; oculi hirsuti; articulo 3o basi testaceo; abdomen maculis dorsalibus cinereis; tibiæ fulvæ; alæ hyalinæ.*

Tabanus dubius, *Macq. Dipt. Exot.* i. 1, 150, 58.

490. Tabanus albivittatus.

Nigra; antennæ fuscæ, apice nigræ; thorax vittis cinereis; abdomen e maculis albis trivittatum, maculis posticis discis nsgris; tibiæ fulvæ, anticæ nigræ basi albidæ; alæ venis fusco limbatis.

Tabanus albivittatus, *Macq. Hist. Nat. Dipt.* i. 206, 32.

491. Tabanus trifasciatus.

Nigra; thorax vittis cinereis; abdomen e maculis albis trivittatum; tibiæ albidæ.

Tabanus trifasciatus, *Macq. Hist. Nat. Dipt.* i. 205, 27.

492. TABANUS DIFFICILIS.

Nigellus, albido pilosus; abdomen trifariam albo maculatum, maculis lateralibus majoribus; pedes fulvo-fuscani; alæ limpidissimæ.

Tabanus difficilis, *Wied. Auss. Zweifl.* i. 165, 83.

493. TABANUS DITÆNIA.

Niger, nitens; abdomen vittis duabus albidis; pedes lutei; alæ limpidissimæ.

Tabanus ditænia, *Wied. Auss. Zweifl.* i. 182, 107.

494. TABANUS FULVIFASCIATUS.

Nigra; antennæ ferrugineæ; abdomen vittis duabus, marginibus posticis ventreque fulvis; pedes flavi, femoribus fulvis, tarsis anticis nigricantibus; alæ ad costam flavæ.

Tabanus fulvifasciatus, *Macq. Hist. Nat. Dipt.* i. 206, 33.

495. TABANUS MACULA.

Fœm. *Niger; oculi hirti; thorax rufo tomentosus; abdomen macula dorsali albida; alæ fuscæ, venæ cubitalis ramo 1o subfurcato.*

Tabanus maculâ, *Macq. Dipt. Exot. Suppl.* 1, 43, 89.

496. TABANUS SCUTELLATUS.

Fœm. *Ater, cinereo pubescens; antennæ furca elongata; scutellum testaceum; alæ fuscæ.*

Tabanus scutellatus, *Macq Dipt. Exot.* i. 2, 186.

497. Tabanus Megerlei.

Nigellus; thorax albido bivittatus; abdomen aurantiacum vitta nigra; alæ fuscano pictæ.

Tabanus Megerlei *Wied. Auss. Zweifl.* i. 132, 32.

498. Tabanus advena.

Niger; caput et antennæ ferruginea; thoracis latera et abdomen fulva, hujus apice piceo; pedes fulvi, tarsis anticis nigris; alæ albidæ.

Tabanus advena, *Walk. Zool.* viii. *Append.* lxix.

a. ——— ? Voyage of the Blonde. Presented by Capt. Lord Byron.

499. Tabanus macrodonta.

Fœm. *Niger; antennæ furca elongata; thorax fuscus; abdomen cyaneo-nigrum; tibiæ anticæ basi albidæ; alæ fuscæ, fascia apiceque subhyalinis.*

Tabanus macrodonta, *Macq. Dipt. Exot.* i. 2, 183.

500. Tabanus gigas.

Nigro-fuscus; alæ subfuscescentes, basi margineque externo nigro-fuscis.

Tabanus gigas, *Macq. Hist. Nat. Dipt.* i. 200, 12.

501. Tabanus incertus.

Fœm. *Obscure fuscus; antennæ nigræ; abdomen maculis dorsalibus albidis; pedes fusco-fulvi; alæ subcinereæ, venis fusco marginatis.*

Tabanus incertus, *Macq. Dipt. Exot.* i. 1, 147, 53.

502. Tabanus fusconervosus.

Fœm. *Obscure fuscus; antennæ pedesque fulva; abdomen maculis dorsalibus albidis; alæ subrufescentes, venis fusco marginatis.*

Tabanus fusconervosus, *Macq. Dipt. Exot.* i. 1, 147, 52.

Allied to *T. lineatus.*

503. Tabanus longipennis.

Fuscus; antennæ ferrugineæ; thorax vittis tribus indistinctis obscurioribus; abdomen vitta dorsali obscuriore indistincta; pedes fulvi; alæ longæ, subrufo-fuscæ.

Tabanus longipennis, *Macq. Hist. Nat. Dipt.* i. 201, 15.

504. Tabanus fuscinervis.

Fœm. *Castaneus; antennæ testaceæ, apice fuscæ, furca elongata; abdomen fuscum, maculis dorsalibus trigonis albidis; pedes fusco-fulvi, antici fusci tibiis albidis; alarum venæ fusco marginatæ.*

Tabanus fuscinervis, *Macq. Dipt. Exot.* i. 2, 184.

505. Tabanus fenestratus.

Rufus; palpi, antennæ basi et pedes ferruginea; abdomen apice piceum; tarsi picei; alæ limpidæ, dimidio basali nigro-fusco maculis duabus limpidis.

Tabanus fenestratus, *Walk. Zool.* viii. *Append.* lxvii.

a. ——— ?

506. Tabanus castaneoventris.

Fœm. *Thorax rubescens; abdomen castaneum, maculis dorsalibus albidis, basi rubescens; femora fulva, tibiæ flavo-albæ; alæ hyalinæ.*

Tabanus castaneoventris, *Macq. Dipt. Exot.* i. 1, 148, 55.

509. Tabanus brevivitta.

Flavus; caput subtus albidum; antennæ basi pedesque fulva; thorax ferrugineus, vittis duabus flavis ferrugineo maculatis ornatus; tarsi picei; alæ limpidæ fusco trimaculatæ, ad costam flavo-fuscæ.

Tabanus brevivitta, *Walk. Zool.* viii. *Append.* xcvi.

a. ——— ?

510. Tabanus lativentris.

Fœm. *Antennæ fulvæ dente elongato; thorax testaceus; abdomen latum ferrugineum; pedes fulvi; alæ flavescentes.*

Tabanus lativentris, *Macq, Dipt. Exot.* i. 1, 149, 57, pl. 18, f. 1.

511. Tabanus lagenaferus.

Fœm. *Testaceus; antennæ apice nigræ; thorax vittis nigricantibus; abdomen pedesque fulva; alæ hyalinæ.*

Tabanus lagenaferus, *Macq. Dipt. Exot.* i. 1, 148, 54.

512. Tabanus Fullo.

Canus; caput subtus album; palpi, antennæ basi pedesque fulva; abdominis segmentorum margines postici ferruginei; femora cana; tarsi picei; alæ albidæ.

Tabanus Fullo, *Walk. Zool.* viii. *Append.* lxvii.

a. ——— ?

513. Tabanus ochraceus.

Fœm. *Ochraceus; antennæ dente elongato; alæ flavescentes.*

Tabanus ochraceus, *Macq. Dipt. Exot.* i. 1, 149, 56.

Resembles T. unicolor, *Wied.*

514. TABANUS LINEOLA.

Ardentissime testaceus; abdomen vittis tribus dilutioribus; alæ limpidæ.

Tabanus lineola, *Pal. Beauv. Ins.* pl. 2, f. 6. *Wied. Auss. Zweifl.* i. 169, 88.

515. TABANUS ELONGATUS.

Flavidus, albo hirtus; abdomen ardentius flavidum, vitta albida; alæ limpidæ.

Tabanus elongatus, *Wied. Auss. Zweifl.* i. 124, 19.

Genus 7. DASYBASIS.

Tabano affinis. Frons fœm. sat lata, postice paullo retracta, basi transverse sulcata. Facies maris hirtissima, fœm. pubescens. Proboscis labiis tenuibus. Antennæ 6-articulatæ, basi hirtæ, apice acuminatæ, articulo 3o subtus dilatato, non dentato.

Dasybasis, *Macq. Dipt. Exot. Suppl.* 2, 25.

Mediastinal vein ending before two-thirds of the length of the wing. Subcostal ending at about three-fourths of the length. Radial curved towards its tip, ending nearer to the tip of the wing than to the subcostal. First branch of the cubital simple, forming a rounded angle near its base, curved and parallel to the radial towards its tip; second branch nearly straight, ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Anal vein undulating, not united to the subanal. Axillary vein curved. Discal areolet elongated, hexagonal.

1. DASYBASIS APPENDICULATA.

Nigra; oculi hirti; abdominis incisuræ fulvæ; tibiæ fulvæ, anticæ nigræ; alarum venæ transversæ fusco limbatæ, venæ cubitalis ramus 1us furcatus.

Dasybasis appendiculata, *Macq. Dipt. Exot. Suppl.* 2, 25, 1, pl. 1, f. 1.

New Holland.

2. DASYBASIS FUSCONIGER.

Silvius? fusconiger, *Cat. of Diptera*, Pt. 1, 192.

3. DASYBASIS PERSONATUS.

Silvius? personatus, *Cat. of Diptera*, Pt. 1, 192.

4. DASYBASIS ERISTALOIDES.

Silvius? eristaloides, *Cat. of Diptera*, Pt. 1, 193.

Genus 8. ACANTHOCERA.

Proboscis brevis. Ocelli nulli. Antennæ 7-articulatæ, capitis thoracisque longitudine; flagellum simplex, fusiforme, basi elongatum; articuli 1us et 2us acuminati. Alæ angustæ; venæ cubitalis ramus 1us furcatus.

Acanthocera, *Macq. Hist. Nat. Dipt.* 1.

Mediastinal vein ending before two-thirds of the length of the wing. Subcostal ending before three-fourths of the length. Radial slightly curved towards its tip, ending much nearer to the tip of the wing than to the subcostal. First branch of the cubital simple, obtusely angular near the base, almost straight from thence to the tip; second branch straight, ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal close to the border. Discal areolet elongated, narrow, hexagonal.

1. ACANTHOCERA LONGICORNIS.

Nigra, gracilis, orichalceo lineata; alæ costa, lunula, vittaque fuscis.

Tabanus longicornis, *Fabr. Ent. Syst.* iv. 371, 38; *Syst. Antl.* 103, 45.

Hæmatopota triangularis, *Wied. Zool. Mag.* iii. 44, 6.

Hæmatopota longicornis, *Wied. Dipt. Exot.* i. 98, 4; *Auss. Zweifl.* i. 213, 1.

Acanthocera longicornis, *Macq. Dipt. Exot.* i. 1, 154.

Brazil.

2. ACANTHOCERA MARGINALIS.

Fœm. *Picea; antennæ cornutæ, basi testaceæ, thoracis longitudine; thorax vittis duabus dorsalibus maculisque duabus lateralibus scutelloque aurato-flavis; abdominis segmenta* 1*um et* 2*um aurato-flavo marginata; pedes picei, tibiis tarsisque basi albis; alæ limpidæ, vitta costali strigaque postica fuscis.*

Fem. Piceous. Head with a triangular callus in front, and a larger and nearly round one beneath the antennæ. Antennæ as long as the thorax, testaceous at the base; third joint with a rather long horn; the following joints of nearly equal length, shorter than the third. Thorax with two slender parallel gilded yellow dorsal stripes, and with a gilded yellow spot on each side. Scutellum gilded yellow. First, second and third abdominal segments with gilded yellow hind borders. Legs piceous; tibiæ and tarsi white towards the base; middle tibiæ wholly white. Wings limpid, brown along the fore border, and with a brown streak between the subanal and anal veins towards their tips; first branch of the cubital vein simple, forming a sharply defined slightly obtuse angle near the base; subanal vein joining the anal close to the border. Length of the body 4 lines; of the wings 8 lines.

a. Parâ. From Mr. Bates' collection.

Genus 9. DIABASIS.

Frons fœm. sat angusta. Facies convexa. Ocelli nulli. Proboscis brevis. Palpi fœm. subulati. Antennæ mediocres, incumbentes, 7-articulatæ, oculis inferius insertæ, articulo 3o simplici. Tibiæ anticæ sæpissime arcuatæ.

Diabasis, *Macq. Hist. Nat. Dipt.* i.; *Dipt. Exot.* i. 1, 150.
Tabanus, p., *Fabr.*; *Wied.*

Mediastinal vein ending at before two-thirds of the length of the wing. Subcostal ending before three-fourths of the length. Radial ending at half the distance between the subcostal and the tip of the wing. First branch of the cubital simple, forming an obtuse and rounded angle near the base, slightly curved towards the tip. Second branch ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal at some distance from the border. Discal areolet elongated, narrow, hexagonal; sides slightly convex.

1. Diabasis varius.

Diabasis varius, *Cat. of Diptera*, Pt. 1, 209.

D. varius has straight and slender fore tibiæ, and thereby differs from the other species of this genus. The eyes are very hairy.

A. Thorax niger.
  A. Alæ venis transversis fusco marginatis. - scutellata, *Macq.*
  B. Alæ apice fuscæ. - - - - podagrica, *Fabr.*
  C. Alæ costa fusca. - - - - - bicincta, *Fabr.*
  D. Alæ costa apiceque fuscis.
    a. Thorax vitta flava. - - - - bivittata, *Wied.*
    b. Thorax utrinque albidus. - - - glabra, *Wied.*
  E. Alæ fusco fasciatæ. - - - - diversipes, *Macq.*
B. Thorax piceus. - - - - - - crassipes, *Wied.*
C. Thorax fuscus. - - - - - globicornis, *Hoffm.*
D. Thorax pallidus.
  A. Alæ hyalinæ. - - - - - interrupta, *Macq.*
  B. Alæ apice fuscæ.
    a. Thorax non vittatus. - - - - atænia, *Macq.*
    b. Thorax vittatus. - - - - curvipes, *Fabr.*
  C. Alæ fuscanæ. - - - - fuscipennis, *Macq.*

2. Diabasis scutellata.

Fœm. *Niger; antennæ et scutellum rufa; tibiæ posticæ albæ; alarum venæ transversæ fusco marginatæ.*

Diabasis scutellata, *Macq. Dipt. Exot.* i. 1, 151, 1, pl. 18, f. 2.

Cayenne.

3. Diabasis? podagrica.

Nigra; thorax limbo et abdomen basi flava, hoc macula apiceque nigris; alæ apice fuscæ; tibiæ posticæ incrassatæ, piceæ.

Hæmatopota podagrica, *Fabr. Syst. Antl.* 108, 5. *Wied. Dipt. Exot.* i. 98, 3; *Auss. Zweifl.* i. 219, 9.

South America.

4. DIABASIS BICINCTA.

Nigra ; thoracis maculæ, scutellum, fasciæque duæ baseos abdominis albida ; alæ costa fusca.

Tabanus bicinctus, *Fabr. Syst. Antl.* 102, 42 ; *Auss. Zweifl.* i. 191, 120.

Chrysops bicinctus, *Wied. Dipt. Exot.* i. 105, 6.

South America.

5. DIABASIS BIVITTATA.

Nigra ; antennæ basi fulvæ ; thorax vitta tomentosa flava, scutello flavescente ; abdomen fulvum, nigro bivittatum ; pedes fulvi ; alæ limpidæ, costa apiceque fuscis.

Tabanus bivittatus, *Wied. Auss. Zweifl.* i. 193, 122.

Hæmatopota bivittata, *Macq. Hist. Nat. Dipt.* i. 212, 8.

Brazil.

6. DIABASIS GLABRA.

Nigella ; antennæ flavæ ; thorax utrinque albidus ; scutellum fascia glaucescente ; abdomen fuscum, fasciis maculas trigonas emittentibus flavis ; alæ costa apiceque fuscanis.

Tabanus glabra, *Wied. Auss. Zweifl.* i. 192, 121.

Brazil.

7. DIABASIS DIVERSIPES.

Fœm. *Niger ; antennæ fulvæ ; scutellum, abdominis fasciæ duæ tibiæque anteriorœ albidæ ; alæ costa fasciaque transversa angusta fuscis.*

Diabasis diversipes, *Macq. Dipt. Exot. Suppl.* 3, 13, 2.

Brazil.

8. DIABASIS ? CRASSIPES.

Picea ; antennæ ferrugineæ ; alæ ad costam fuscæ, albo septempunctatæ ; tibiæ anticæ compressæ dilatatæ ; tarsi baseos albi.

Hæmatopota crassipes, *Fabr. Syst. Antl.* 108, 4. *Wied. Dipt. Exot.* i. 97, 2 ; *Auss. Zweifl.* i. 220, 10.

South America.

9. Diabasis globicornis.

Fusca ; antennæ articulo 2o globiformi ; abdomen vitta alba ; alæ costa apiceque fuscis.

Tabanus globicornis, *Hoffmansegg*, *Wied. Dipt. Exot.* i. 96, 59 ; *Auss. Zweifl.* i. 190, 118.

Brazil.

10. Diabasis interrupta.

Fœm. *Antennæ fulvæ ; thorax cinereo flavicans ; abdomen fulvum, fasciis tribus nigris, interruptis ; pedes fulvi, tibiis fuscis ; alæ hyalinæ.*

Diabasis interrupta, *Macq. Dipt. Exot.* i. 1, 152, 4.

Brazil.

11. Diabasis atænia.

Flavida ; tibiæ tarsique antica nigra ; alæ apice fuscæ.

Diabasis atænia, *Macq. Dipt. Exot.* i. 1, 152, 3.

Carolina, Brazil.

12. Diabasis curvipes.

Fulva ; thorax vittatus ; abdomen ferruginosum, vitta sulphurea ; tibiæ anticæ incrassatæ ; alæ apice fuscæ.

Tabanus curvipes, *Fabr. Syst. Antl.* 107, 3. *Wied. Dipt. Exot.* i. 90, 49 ; *Auss. Zweifl.* i. 176, 98.

South America.

13. Diabasis fuscipennis.

Fœm. *Thorax testaceus ; abdomen flavescens ; femora fusca, tibiæ albidæ ; alæ fuscanæ.*

Diabasis fuscipennis, *Macq. Dipt. Exot.* i. 1, 152, 2.

Brazil.

Genus 10. HADRUS.

Corpus squamosum. Frons fœm. lata. Facies convexa. Ocelli nulli. Palpi fœm. ovati, obtusi. Proboscis brevis. Antennæ mediocres, incumbentes, 7-articulatæ, oculis inferius insertæ, articulo 3o simplici. Tibiæ anticæ arcuatæ.

Hadrus, *Perty, Del. Anim. Artic. Bras.*
Tabanus, p., *Wied.*
Lepiselaga, *Macq.*

Mediastinal vein ending at two-thirds of the length of the wing. Subcostal ending at three-fourths of the length. Radial ending at nearer to the subcostal than to the tip of the wing. First branch of the cubital simple, slightly curved, forming an obtuse and rounded angle near the base; second branch straight, ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal near the border. Discal areolet elongated, narrow, hexagonal; hind side very concave.

1. HADRUS LEPIDOTUS.

Niger, viridaureo squamulosus; alæ nigræ, guttulis albis, apice limpidæ.

Tabanus lepidotus, *Wied.*

Brazil, Guiana.

a. Parà. From Mr. Bates' collection.

Genus 11. SELASOMA.

Fœm. Corpus compressum, metallicum. Caput depressum. Frons sat angusta. Facies brevis. Oculi nudi. Ocelli nulli. Palpi crassi, subelevati, supra convexi. Antennæ capitis basi insertæ, articulo 3o latissimo compresso ovali. Tibiæ latæ, convexæ, extus ciliatæ. Alarum vena cubitalis ramo 1o furcato.

Selasoma, *Macq. Dipt. Exot.*
Tabanus, p., *Wied.*
Hadrus, p., *Walk.*

Mediastinal vein ending before two-thirds of the length of the wing. Subcostal ending at three-fourths of the length. Radial ending a little nearer to the tip of the wing than to the subcostal.

First branch of the cubital forked and obtusely angular near the base, slightly curved from thence to the tip; second branch nearly straight, ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal near the border. Discal areolet oblong, hexagonal, somewhat broad; hind basal side rather long.

1. SELASOMA TIBIALE.

Chalybeo-violaceus; tibiæ incrassatæ; alæ fusco-nigræ, apice limpidæ.

Tabanus tibialis, *Fabr. Syst. Antl.* 102, 39. *Wied. Dipt. Exot.* i. 89, 47; *Auss. Zweifl.* i. 164, 82.
Selasoma tibiale, *Macq. Dipt. Exot.* i. 2, 188.
Var. Hadrus cyaneus, *Cat. of Diptera*, Pt. 1, 208.
Hadrus chalybeus, *Perty, Del. Anim. Art. Bras.*

2. SELASOMA CYANEUM.

Chalybeus; alæ limpidissimæ.

Tabanus cyaneus, *Wied. Auss. Zweifl.* i. 152, 65.

Genus 12. SILVIUS.

Corpus oblongum, pubescens. Ocelli tres. Proboscis brevis. Antennæ 7-articulatæ, sat parvæ; articulus 3us angulatus, non furcatus. Abdomen longi-obconicum. Pedes sat gracilis.

Silvius, *Meig. Zweifl.* ii. *Wied.; Macq.*
Tabanus, p., *Fabr.*

Mediastinal vein ending at much before two-thirds of the length of the wing. Subcostal ending at a little before three-fourths of the length. Radial ending much nearer to the tip of the wing than to the subcostal. First branch of the cubital simple, slightly curved, with a very obtuse and rounded angle near its base; second branch ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal at some little distance from the border. Discal areolet elongated, hexagonal.

Europe.

1. Silvius Vituli.

Ferrugineus; antennæ apice nigræ; abdomen fuscum, segmentorum marginibus ferrugineis; pedes flavi; alæ limpidæ.

Tabanus Vituli, *Fabr.*

The second branch of the cubital vein is straight in the male, curved and approaching the first externo-medial vein in the female.

North America.

2. Silvius isabellinus.

Læte isabellinus; frons dilute glaucescens; abdomen incisuris albidis; alæ limpidissimæ.

Silvius isabellinus, *Wied.*

South America.

A. Corpus ferrugineum. - - - - Vulpes, *Wied.*
B. Corpus fuscum. - - - - - Esenbeckii, *Wied.*
C. Corpus nigrum. - - - - - Silveirii, *Macq.*

3. Silvius Vulpes.

Ferrugineus; tibiæ posticæ nigro pilosæ; alæ saturate flavido-fuscanæ.

Silvius Vulpes, *Wied. Auss. Zweifl.* i. 111, 1.

Brazil.

4. Silvius Esenbeckii.

Fuscus; antennæ nigro-fuscæ, non dentatæ; abdomen niveo fasciatum; pedes nigri; alæ basi flavidæ, apice fuscæ.

Silvius Esenbeckii, *Wied. Auss. Zweifl.* ii. 622, 19.

Brazil.

5. Silvius Silveirii.

Fœm. *Niger; abdomen fasciis tribus albis; tibiæ albæ; alæ hyalinæ, ad costam nigro-fuscæ.*

Silvius Silveirii, *Macq. Dipt. Exot.* i. 1, 155, 1, pl. 19, f. 1.

Brazil.

Africa.

A. Thorax flavidus. - - - - - denticornis, *Wied.*
B. Thorax nigricans. - - - - - Algirus, *Meig.*
C. Thorax cinereus. - - - -. appendiculata, *Macq.*

6. Silvius denticornis.

Flavidus; abdomen vittulis baseos duabus et utrinque marginali fuscis; alæ fuscæ, macula excisuraque limpidis.

Silvius denticornis, *Wied.*

a. Port Natal. From Mr. Stevens' collection.

7. Silvius Algirus.

Fulvus; frons, facies et palpi flava; antennæ apice nigræ; thorax nigricans, fulvo pilosus; alæ limpidæ, costa flava; abdomen maculis quatuor dorsalibus albidis; pedes flavi, tarsis nigris basi flavis.

Silvius algirus, *Meig. Zweifl.* vi. 2. *Macq. Hist. Nat. Dipt.* i. 214, 2. *Lucas, Explor. Scient. Alg. Zool.* iii. 427, 35.

Algiers.

8. Silvius appendiculatus.

Mas. *Cinereus; antennæ palpique fulva, hi apice nigri; abdomen antice fulvum, maculis dorsalibus nigris, postice nigricans; pedes flavis, tarsis nigris; alæ flavidæ.*

Silvius appendiculatus, *Macq. Dipt. Exot. Suppl.* 1, 45, 2, pl. 4, f. 10.

Algiers.

Genus 13. SCEPSIS.

Silvio affinis. Ocelli distincti. Antennæ parvæ, simplices. Venæ cubitalis ramus 1us fuscam longum emittens.

Scepsis, *Diptera Saundersiana*, Pt. 1, 71.

1. Scepsis nivalis.

Scepsis nivalis, *Diptera Saundersiana*, Pt. 1, 71, pl. 2, f. 7.

South America.

Genus 14. CHRYSOPS.

Corpus mediocre, pubescens, oblongum, sat latum. Ocelli tres. Proboscis brevis. Antennæ 7-articulatæ, cylindricæ; articuli 1us et 2us hirti, æquales. Abdomen depressum. Alæ sæpe nigro fasciatæ aut nigræ maculis limpidis.

Chrysops, *Meig. Klass.; Fabr. Syst. Antl.; Latr.; Fall.; Macq. Zeller; Zett.*

Tabanus, p., *Linn.; Fabr. Ent. Syst.; Gmel.; Panz.*

Mediastinal vein ending at much before two-thirds of the length of the wing. Subcostal ending at a little before three-fourths of the length. Radial ending at somewhat nearer to the tip of the wing than to the subcostal. First branch of the cubital simple, very slightly curved, forming a very obtuse and rounded angle near its base; second branch nearly straight, ending on the hind border at some distance from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal on the border. Discal areolet elongated, hexagonal; fore side very much longer than the hind side.

Europe.

A. Alæ fuscæ maculis pallidis.
  A. Pedes nigri.
    a. Abdomen maris basi fulvo bimaculatum, fœm. basi fulvum. cæcutiens, *Linn.*
    b. Abdomen maris maculis fulvis trivittatum, fœm. lateribus basi flavis. - - - - - pictus, *Meig.*
      a. Tibiæ fulvæ.
        i. Abdominis segmentum 2um maculis duabus basi subcohærentibus nigris. - - relictus, *Hoffm.*

ii. Abdominis segmentum 2um striolis longitudinalibus subparallelis nigris. - - parallelogramma, *Zell.*
b. Tibiæ nigræ. - - - - - nigripes, *Zett.*
c. Abdomen fulvum, antice macula quadrata, postice fasciis nigris. - - - - - quadratus, *Meig.*
B. Pedes testacei, femoribus nigris. - - pictus, *Meig.*
C. Pedes fulvi. - - - - - - rufipes, *Meig.*

B. Alæ limpidæ, fusco fasciatæ.
A. Thorax niger.
A. Abdomen flavo maculatum. - - fenestratus, *Fabr.*
B. Abdomen flavo non maculatum. - sepulchralis, *Fabr.*
B. Thorax pallidus.
A. Alæ apice limpidæ.
a. Thorax flavus. - - - - marmoratus, *Rossi.*
b. Thorax canus. - - - - italicus, *Meig.*
B. Alæ apice fuscanæ. - - - pallida, *Macq.*
C. Alæ subfuscescentes. - - - singularis, *Meig.*
D. Alæ omnino limpidæ. - - - vitripennis, *Meig.*

1. Chrysops cæcutiens.

Niger; thorax fœminæ *cinereo bivittatus; abdomen* maris *basi fulvo bimaculatum,* fœminæ *basi fulvum maculisque trigonis fulvis vittatum; alæ* maris *nigro-fuscæ cinereo bimaculatæ,* fœminæ *fuscæ limpido bimaculatæ.*

Tabanus cæcutiens, *Linn.*
Chrysops cæcutiens, *Meig. Dum. Cons. Gen. Ins.* pl. 46, f. 6, *Dahlb. Ins. Skad. och Nytt.* 307, 206. *Zeller, Isis,* 1840, 518, 1, 1842, 823, pl. 4, f. 33, 34.

a—f. England. From Mr. Stephens' collection.

2. Chrysops relictus.

Niger; thorax fœminæ *cinereo quadrivittatus; abdomen maculis trigonis cinereis univittatum maculisque fulvis trivittatum,* fœminæ *lateribus basi flavis segmentorum marginibus posticis cinereis; tibiæ fulvæ; alæ* maris *nigro-fuscæ cinereo bimaculatæ,* fœminæ *fuscæ albido bimaculatæ.*

Chrysops relictus, *Hoffm.*; *Meig.* *Zeller*, *Isis*, 1840, 518, 2, 1842, 825, pl. 4, f. 32. Fœm. — *Abdomen ferrugineum, segmenti 2i maculis duabus basi subcohærentibus nigris, 3i 4ique fascia bis emarginata, in medio interrupta nigra.*

a—f. England. From Mr. Stephens' collection.

3. Chrysops parallelogramma.

Fœm. *Abdomen ferrugineum, segmenti 2i striolis longitudinalibus subparallelis nigris, 3i 4ique fascia bis emarginata, in medio interrupta nigra.*

Chrysops parallelogramma, *Zeller*, *Isis*, 1842, 823—825.
Austria.

4. Chrysops nigripes.

Fœm. *Nigricans; antennæ, palpi pedesque nigra; abdominis segmenta margine tenuiter serieque dorsali media macularum trigonarum, glaucis.*

Chrysops nigripes, *Zett. Ins. Lapp.* 519, 3; *Dipt. Scand.* i. 125, 3.
Lapland.

5. Chrysops quadratus.

Mas. *Niger; abdomen fulvum, antice macula quadrata, postice fasciis nigris; alæ nigro-fuscæ, cinereo bimaculatæ.*

Chrysops quadratus, *Meig.* *Zeller*, *Isis*, 1840, 519, 3.

6. Chrysops pictus.

Niger; antennæ basi testaceæ; thorax fœminæ *antice cinereo bivittatus; abdomen fulvum, segmento 2o puncto triangulari, reliquis fascia nigris; pedes testacei, femoribus nigris; alæ* maris *nigro-fuscæ cinereo bimaculatæ,* fœminæ *fuscæ albido bimaculatæ.*

Chrysops pictus, *Meig.* *Zeller*, *Isis*, 1840, 519, 4; 1842, 823, pl. 4, f. 28, 29.

7. Chrysops rufipes.

Fœm. *Niger; abdomen seriebus tribus macularum trigonarum incisurisque fulvis; pedes fulvi, genubus nigris; alæ fuscæ, limpido bimaculatæ.*

Chrysops rufipes, *Meig.* *Zeller, Isis*, 1840, 619, 5; 1842, 823, pl. 4, f. 30. *Zett. Dipt. Scand.* i. 126, 6.
Chrysops viduatus, Var. β., *Fall. Dipt. Suec. Taban.* 10, 2.

8. Chrysops fenestratus.

Niger; thorax fœminæ *cinereo vittatus; abdomen flavo maculatum; tibiæ fulvæ; alæ fascia fusca albo maculata.*

Chrysops fenestratus, *Fabr.* *Lucas. Explor. Sci. Alg. Zool.* iii. 427, 36.

Europe. North Africa.

9. Chrysops sepulchralis.

Niger; abdomen incisuris pallide villosis; alæ albidæ, costa maculaque media transversa nigris.

Chrysops sepulchralis, *Zett. Dipt. Scand.* i. 126, 7.

North Europe. North America.

10. Chrysops marmoratus.

Fœm. *Pallide flavus; thorax nigro bivittatus; abdomen maculis nigris; tarsi antici nigri; alæ albidæ, fascia fusca limpido maculata.*

——— ——— *Geoff. Ins.* ii. 464, 11.
Tabanus marmoratus, *Rossi, Faun. Etrusc.* ii. 1552.
Tabanus flavipes, *Meig. Klass. Zweifl.* i. 159, 3, pl. 9, f. 13.
Chrysops marmoratus, *Meig. Zweifl.* ii. 73, 8.

11. CHRYSOPS ITALICUS.

Canus; thorax nigro trivittatus; abdomen maculis nigris; tibiæ anticæ basi, posteriores omnino fulvæ; alarum fasciæ macula fenestrata.

Chrysops italicus, *Meig.*

12. CHRYSOPS PALLIDUS.

Fœm. *Fulva; thorax vittis duabus fuscis; abdominis incisuræ fuscæ; alæ basi costa fascia apiceque fuscanis.*

Chrysops pallida, *Macq. Dipt. Exot.* i. 1, 162, 11.

Allied to *C. marmoratus.*

France?

13. CHRYSOPS SINGULARIS.

Cinereus; antennæ et pedes fulva; thorax nigro trivittatus; abdomen nigro fasciatum; alæ subfuscescentes, immaculatæ.

Chrysops singularis, *Meig. Zweifl.* vii. 60, 12.

Bavaria.

14. CHRYSOPS VITRIPENNIS.

Cinereus; thorax vittis tribus nigricantibus; abdominis latera antica fusco maculata; tibiæ fulvæ, apice fuscæ; alæ hyalinæ.

Chrysops vitripennis, *Meig. Zweifl.* ii. 74, 11.

North America.

15. CHRYSOPS AREOLATUS.

Chrysops areolatus, *Cat. of Diptera*, Pt. 1, 197.

16. CHRYSOPS CANIFRONS.

Chrysops canifrons, *Cat. of Diptera*, Pt. 1, 197.

17. CHRYSOPS APPROXIMANS.

Chrysops approximans, *Cat. of Diptera*, Pt. 1, 198.

18. CHRYSOPS FURCATUS.

Chrysops furcatus, *Cat. of Diptera*, Pt. 1, 199.

19. CHRYSOPS MŒRENS.

Chrysops mœrens, *Cat. of Diptera*, Pt. 1, 201.

20. CHRYSOPS CARBONARIUS.

Chrysops carbonarius, *Cat. of Diptera*, Pt. 1, 203.

21. CHRYSOPS DIVISUS.

Chrysops divisus, *Cat. of Diptera*, Pt. 1, 204.

22. CHRYSOPS EXCITANS.

Chrysops excitans, *Diptera Saundersiana*, Pt. 1, 72.

23. CHRYSOPS PROVOCANS.

Chrysops provocans, *Diptera Saundersiana*, Pt. 1, 73.

A. Corpus nigrum.
  A. Alæ nigræ, fusco notatæ. - - - plangens, *Wied.*
  B. Alæ fuscæ limpido notatæ.
    A. Thorax non vittatus.
      a. Abdomen non maculatum - - fuliginosus, *Wied.*
      b. Abdomen flavo maculatum. - trinotatus, *Macq.*
    B. Thorax flavo bivittatus. - - - lugens, *Wied.*
  C. Alæ hyalinæ, fusco notatæ.
    A. Pedes nigri. - - - - - - niger, *Macq.*
    B. Pedes fulvi. - - - - - fascipennis, *Macq.*

B. Corpus canescens. - - - - quadrivittatus, *Say.*
C. Corpus fuscum. - - - - - - obsoletus, *Wied.*
D. Corpus flavum.
A. Thorax fusco trivittatus. - - - flavidus, *Wied.*
B. Thorax fusco bivittatus. - - - - vittatus, *Wied.*

24. CHRYSOPS PLANGENS.

Niger, cano hirtus; alæ costa, fascia apiceque dilutissime fuscæ.

Chrysops plangens, *Wied.*

25. CHRYSOPS FULIGINOSUS.

Niger, fuliginoso hirtus; alæ fuscæ, fascia abbreviata lunulaque apicali limpidis.

Chrysops fuliginosus, *Wied.*

26. CHRYSOPS TRINOTATUS.

Fœm. *Niger; antennæ basi pedesque fulva; abdomen maculis tribus flavis; alæ fuscæ, margine postico fasciaque transversa arcuata hyalinis.*

Chrysops trinotata, *Macq. Dipt. Exot.* i. 1, 161, 9.

Philadelphia.

27. CHRYSOPS LUGENS.

Niger; thorax flavo bivittatus; alæ lunula et macula parva limpidis.

Chrysops lugens, *Wied. Dipt. Exot.* i. 109, 12; *Auss. Zweifl.* i. 212, 26.

United States.

28. CHRYSOPS NIGER.

Fœm. *Niger; antennæ nonnunquam basi fulvæ; alæ hyalinæ, costa fasciaque trigona fuscis.*

Chrysops nigra, *Macq. Dipt. Exot.* i. 1, 161, 10.

North America.

29. CHRYSOPS FASCIPENNIS.

Niger; antennæ fulvæ; thorax lateribus fulvis; abdomen fulvum, nigro bivittatum; pedes fulvi; alæ hyalinæ, costa fascia apiceque fuscis.

Chrysops fascipennis, *Macq. Hist. Nat. Dipt.* i. 21, 6, 7.

Philadelphia.

30. CHRYSOPS QUADRIVITTATUS.

Canescens; thorax nigro quadrivittatus; abdomen e maculis fuscis quadrivittatum; pedes flavo-fusci; alæ limpidæ, fusco punctatæ.

Chrysops quadrivittatus, *Say, Journ. Acad. Philad.* iii. 1822, 33, 1. *Wied. Auss. Zweifl.* i. 200, 9.

Pennsylvania.

31. CHRYSOPS OBSOLETUS.

Fuscus; antennæ flavæ, apice nigro-fuscæ; pedes flavi, tibiis anticis et posticis fuscis; alæ hyalinæ costa fascia apiceque fuscis; mas *thorax et abdomen absque vittis;* fœm. *thorax flavo quadrivittatus; abdomen vitta abbreviata, utrinque macula longitudinali flavis.*

Chrysops obsoletus, *Wied. Dipt. Exot.* i. 108, 10; *Auss. Zweifl.* i. 211, 25.

North America.

32. CHRYSOPS FLAVIDUS.

Flavidus; antennæ apice nigræ; thorax vittis tribus, abdomen maculis duabus antice conjunctis, fuscis; alæ limpidæ, costa ante apicali fasciaque lata fuscis.

Chrysops flavidus, *Wied. Dipt. Exot.* i. 105, 5; *Auss. Zweifl.* i. 199, 7.

United States.

33. Chrysops vittatus.

Flavus; antennæ apice fuscæ; thorax fusco bivittatus; abdomen fusco quadrivittatum; alæ limpidæ, costa fascia apiceque fuscis.

Chrysops vittatus, *Wied.*

West Indies.

34. Chrysops frontalis.

Mas. *Niger; pedes fulvi, femoribus nigris, tibiis anticis fuscis; alæ fuscæ, maculis quatuor albidis.*

Chrysops frontalis, *Macq. Dipt. Exot.* i. 1, 160, 7.

St. Domingo.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.

35. Chrysops convergens.

Chrysops convergens, *Cat. of Diptera*, Pt. 1, 198.

36. Chrysops inornatus.

Chrysops inornatus, *Cat. of Diptera*, Pt. 1, 199.

South America.

A. Corpus nigrum aut nigro-fuscum.
  A. Alæ nigræ, maculis sublimpidis. - - tardus, *Wied.*
  A. Alæ fuscæ limpido notatæ. - - - lugubris, *Macq.*
  B. Alæ limpidæ aut subcinereæ, fusco notatæ.
    a. Thorax non vittatus.
      a. Abdomen maculis flavis. - - - incisus, *Macq.*
      b. Abdomen marginibus posticis testaceis. fulviceps, *Walk.*
      c. Abdomen maculis albis.
        i. Alæ basi nigræ. - - - - leucospilus, *Wied.*
        ii. Alæ basi limpidæ. - - - guttula, *Wied.*
    B. Thorax bivittatus. - - - - lateralis, *Wied.*
    C. Thorax quadrivittatus. - - - - lætus, *Wied.*
    D. Thorax quinquevittatus.
      a. Alæ basi fuscæ. - - - - trifaria, *Macq.*
      b. Alæ basi limpidæ. - - - - varians, *Wied.*
      c. Alæ limpidæ. - - - - bimaculatus, *Wied.*

B. Corpus fuscum.
  A. Abdomen flavo maculatum. - - - crucians, *Wied.*
  B. Abdomen albido maculatum. - - - tristis, *Fabr.*
C. Corpus glaucum. - - - - - afflictus, *Wied.*
D. Corpus flavum.
  A. Alæ fuscæ, limpido notatæ. - - - molestus, *Wied.*
  B. Alæ limpidæ, fusco notatæ.
    A. Alæ fascia fusca. - - - - - costatus, *Fabr.*
    B. Alæ apice fuscæ. - - - - varipes, *Walk.*

37. Chrysops tardus.

Niger; antennæ fuscescentes; thorax luteo quadrivittatus; abdomen incisuris, maculis quadratis et trigonis luteis; alæ nigræ, maculis tribus apiceque sublimpidis.

Chrysops tardus, *Wied. Auss. Zweifl.* i. 577, 8.
Brazil.

38. Chrysops lugubris.

Fœm. *Nigro-fuscus; antennæ pedesque nigra; alæ fuscæ, maculis pallidis.*

Chrysops lugubris, *Macq. Dipt. Exot. Suppl.* 1, 44, 14, pl. 4, f. 11.
Brazil.

39. Chrysops incisus.

Fœm. *Niger; antennæ basi apiceque fulvæ; abdomen maculis dorsalibus lateralibusque flavis; alæ basi, costa fasciaque fuscis.*

Chrysops incisus, *Macq. Dipt. Exot. Suppl.* 1, 44, 15, pl. 4, f. 12.
New Grenada. Temperate Region.

40. Chrysops fulviceps.

Fœm. *Niger; caput fulvum; palpi testacei; antennæ ferrugineæ, basi fulvæ, apice nigræ; abdominis segmenta marginibus posticis testaceis; pedes fulvi, tarsis fuscis; alæ subcinereæ, vitta costali fasciaque lata postice furcata nigro-fuscis.*

Female. Black. Head tawny; vertex piceous. Palpi testaceous. Antennæ ferruginous, tawny at the base, black towards the tips. Hind borders of the abdominal segments testaceous. Legs tawny; tarsi brown. Wings very slightly gray, dark brown along the fore border and with a very broad dark brown band which is furcate towards the hind border; first branch of the cubital vein simple, slightly curved and not angular near the base; subanal vein joining the anal on the border. Length of the body 2¾ lines; of the wings 6 lines.

a. Parà. From Mr. Bates' collection.

41. Chrysops leucospilus.

Niger; antennæ flavæ apice fuscæ; abdomen basi utrinque macula magna, medio quatuor trigonis albis; alæ hyalinæ, basi costa fasciaque nigris.

Chrysops leucospilus, *Wied. Auss. Zweifl.* i. 202, 12.

Brazil.

42. Chrysops guttula.

Niger; abdomen macula utrinque baseos trigona, guttisque tribus albis; pedes fusci; alæ limpidæ, costa fasciaque nigro-fuscis.

Chrysops guttulà, *Wied. Auss. Zweifl.* i. 203, 13.

Brazil.

43. Chrysops lateralis.

Niger; antennæ flavæ, apice fuscæ; thorax albido bivittatus; abdomen incisuris, maculis mediis trigonis et utrinque maxima laterali flavis; alæ limpidæ, costa fasciaque fuscis.

Chrysops lateralis, *Wied.*

South America.

44. Chrysops lætus.

Niger; caput flavum; antennæ flavæ, apice nigræ; thorax flavo quadrivittatus; abdomen vitta maculari incisurisque flavis; alæ hyalinæ, basi costa, fasciaque fuscis.

Chrysops lætus, *Fabr. Syst. Antl.* 112, 7. *Wied. Dipt. Exot.* i. 108, 9; *Auss. Zweifl.* i. 207, 19.

South America.

45. CHRYSOPS TRIFARIA.

Niger; antennæ basi pedesque fulva; thorax lineis quinque flavis; abdomen trifariam flavo maculatum; alæ basi costa fasciaque fuscis.

Chrysops trifaria, *Macq. Dipt. Exot.* i. 1, 159, 6.

Chili.

46. CHRYSOPS VARIANS.

Nigellus; antennæ flavæ, apice fuscæ; thorax albido quinquevittatus; abdomen nigro-fuscum, vitta incisuris maculisque segmenti secundi flavis; alæ limpidæ, costa fasciaque lata fuscis.

Chrysops varians, *Wied. Auss. Zweifl.* i. 208, 20.

Brazil.

47. CHRYSOPS BIMACULATUS.

Nigellus; antennæ flavæ, apice fuscæ; thorax flavo limbatus; abdomen luteum, basi maculis duabus fuscis; pedes flavi, tibiis anticis posticisque fuscis; alæ limpidæ.

Chrysops bimaculatus, *Wied. Auss. Zweifl.* i. 201, 10.

Var. Chrysops immaculatus, *Wied. Auss. Zweifl.* i. 202, 11.

Brazil.

48. CHRYSOPS CRUCIANS.

Fuscus; antennæ flavæ, apice fuscæ; thorax vittis glaucis; abdomen T magno maculisque versus apicem flavis; pedes flavescentes, tibiis anticis posticisque piceis; alæ basi, costa, fascia incisa, apiceque fuscis.

Chrysops crucians, *Wied. Auss. Zweifl.* i. 211, 24.

Brazil.

a. South America. From Mr. Saunders' collection.

49. Chrysops tristis.

Fuscus; thorax albido lineatus; abdomen albido maculatum; alæ hyalinæ, basi costa fasciaque abbreviata fuscis.

Tabanus tristis, *Fabr. Ent. Syst. Suppl.* 567, 44.
Chrysops tristis, *Fabr. Syst. Antl.* 112, 6. *Wied. Dipt. Exot.* i. 103, 2; *Auss. Zweifl.* i. 197, 4.
Cayenne.

50. Chrysops afflictus.

Glaucus; antennæ flavæ, apice nigræ; thorax vittis tribus lateribusque silaceis; abdomen melleum, maculis geminis baseos et marginibus lateralibus fuscis; femora flava; tibiæ fuscæ, antice albidæ; alæ hyalinæ, apice lituraque media fuscanis.

Chrysops afflictus, *Wied. Auss. Zweifl.* i. 204, 15.
Brazil.

51. Chrysops molestus.

Flavus; antennæ apice fuscæ; thorax fusco trivittatus; abdomen fuscum, basi vitta media vittulisque duabus posticis flavidis; alæ fuscæ, macula majore et tribus minoribus limpidis.

Chrysops molestus, *Wied. Auss. Zweifl.* i. 205, 17. *Guér. Icon. Règne Anim.* pl. 97, f. 3,
Brazil.

52. Chrysops costatus.

Silaceus; antennæ obscuriores; thorax vittis tribus, abdomen duabus, his apice bipartitis, fuscis; alæ fascia fusca, macula excisuraque limpidis.

Tabanus costatus, *Fabr. Ent. Syst.* iv. 373, 45.
Chrysops bifasciata, *Macq.*
Chrysops costata, *Macq. Dipt. Exot.* i. 1, 160, 8.
Chrysops molestus, Var.? *Guér. Icon. Règne Anim. Texte* 542.
South America. Jamaica. Cuba.

53. Chrysops varipes.

Fœm. *Aurato-flavus; palpi testacei; antennæ fulvæ apice fuscæ; thoraæ nigro quadrivittatus; scutellum piceum; abdomen testaceum, vitta dorsali flava, apice fuscum; pedes fulvi, tibiis tarsisque posterioribus basi albidis, tibiis tarsisque anticis nigris, alæ sublimpidæ, antice fulvæ, apice fuscæ.*

Fem. Gilded yellow. Head with a small black callus in front, and a larger one beneath the antennæ. Eyes somewhat æneous. Proboscis piceous. Palpi testaceous. Antennæ tawny, brown towards the tips. Thorax with four shining black stripes, the two on each side united hindward. Scutellum piceous. Abdomen testaceous, with a yellow dorsal stripe, brown towards the tip. Legs tawny; posterior tibiæ and tarsi whitish towards the base; fore tibiæ and tarsi black. Wings nearly limpid, tawny in front, brown at the tips and about the median veinlets; first fork of the cubital vein simple, curved and not angular near the base; subanal vein joining the anal close to the border. Halteres testaceous. Length of the body 4 lines; of the wings 8 lines.

a. Parà. From Mr. Bates' collection.

Affica.

54. Chrysops tarsalis.

Chrysops tarsalis, *Cat. of Diptera*, Pt. 1, 200.

55. Chrysops calidus.

Chrysops calidus, *Cat. of Diptera*, Pt. 1, 205.

A. Abdomen nigrum. - - - oblique-fasciatus, *Macq.*
B. Abdomen fuscum. - - - - - Natalis, *Macq.*
C. Abdomen rufum. - - - - - longicornis, *Macq.*

56. Chrysops oblique-fasciatus.

Fœm. *Niger; pedes rufi; alæ subflavæ, costa fasciaque obliqua fuscis.*

Chrysops oblique-fasciata, *Macq. Dipt. Exot.* i. 1, 157, 2.

Cape.

57. CHRYSOPS NATALIS.

Fœm. *Niger; thorax lineis albis; abdomen fuscum; pedes fulvi; alæ flavidæ, costa, fascia vittaque fuscis.*

Chrysops Natalis, *Macq. Dipt. Exot. Suppl.* 1, 43, 12.
Port Natal.

58. CHRYSOPS LONGICORNIS.

Fœm. *Niger; antennæ longæ, basi rufæ; abdomen rufum, macula nigra cordiformi; femora flava, tibiæ fuscæ; alæ hyalinæ, costa fasciaque fuscis.*

Chrysops longicornis, *Macq. Dipt. Exot.* i. 1, 156, 1, pl. 19, f. 2.
Senegal.
a. Port Natal. From M. Gueinzius' collection.

Asia.

59. CHRYSOPS LIGATUS.

Chrysops ligatus, *Cat. of Diptera*, Pt. 1, 195.

60. CHRYSOPS TERMINALIS.

Chrysops terminalis, *Cat. of Diptera*, Pt. 1, 195.

61. CHRYSOPS SEMICIRCULUS.

Chrysops semicirculus, *Cat. of Diptera*, Pt. 1, 196.

62. CHRYSOPS STIMULANS.

Chrysops stimulans, *Diptera Saundersiana*, Pt. 1, 73.
a. East Indies. From Mr. Saunders' collection.

A. Abdomen totum nigrum. . - - - Japonicus, *Wied.*
B. Abdomen nigrum, ex parte pallidum.
A. Abdomen segmento 2o basi albo pellucido. pellucidus, *Fabr.*
B. Abdomen segmentis 1o et 2o basi albo pellucidis. translucens, *Macq.*
C. Abdomen basi album, apice ochraceum. fasciatus, *Wied.*
C. Abdomen ferrugineum, fusco bimaculatum, basi pallidum. dispar, *Fabr.*
D. Abdomen flavum, macula apiceque nigris. flaviventris, *Macq.*
E. Abdomen albidum, basi apiceque nigris. rufitarsis, *Macq.*

63. Chrysops Japonicus.

Anthracinus, nitens; alæ hyalinæ, costa late, macula magna trigona limboque venæ penultimæ nigris.

Chrysops Japonicus, *Wied. Auss. Zweifl.* i. 203, 14.

Japan.

64. Chrysops pellucidus.

Niger; abdominis segmentum secundum basi albo pellucidum; ala fascia nigra, ad marginem internum excisa.

Chrysops pellucidus, *Fabr.*

65. Chrysops translucens.

Niger; abdominis segmenta 1um 2umque basi albo pellucida; femora fusca, subtus tarsique fulva; alæ hyalinæ, fascia nigra ad marginem internum excisa.

Chrysops translucens, *Macq. Dipt. Exot.* i. 1, 158, 4.

Nearly allied to *C. pellucidus*, Fabr.

Java.

66. Chrysops fasciatus.

Niger; antennæ fuscæ, apice nigræ; abdomen basi album, apice ochraceum; pedes fusci; alæ limpidæ, basi costa fasciaque fuscis.

Chrysops fasciatus, *Wied.*

67. CHRYSOPS DISPAR.

Nigellus; antennæ ferrugineæ, apice nigro-fuscæ; thorax glauco vittatus, lateribus flavis; antennæ testaceæ, apice fuscæ; abdomen ferrugineum, basi pallidum, maculis duabus antice conjunctis fuscis; pedes fulvi; alæ limpidæ, costa fasciaque fuscis.

Chrysops dispar, *Fabr. Macq. Dipt. Exot.* i. 1, 159, 5; *Suppl.* 3, 14.

68. CHRYSOPS FLAVIVENTRIS.

Fœm. *Niger; abdomen flavum macula apiceque nigris; pedes fulvi, femoribus fuscis; alæ costa fasciaque fuscanis.*

Chrysops flaviventris, *Macq. Dipt. Exot. Suppl.* 1, 44, 13.

Hindostan.

Allied to *C. translucens.*

69. CHRYSOPS RUFITARSIS.

Mas. *Niger; abdomen albidum, basi apiceque nigrum; tarsi posteriores fulvi; alæ basi, costa fasciaque fuscis.*

Chrysops rufitarsis, *Macq. Dipt. Exot. Suppl.* 3, 14, 16.

Java.

New Holland.

70. CHRYSOPS SUBCANUS.

Chrysops subcanus, *Cat. of Diptera*, Pt. 1, 204.

Country unknown.

71. CHRYSOPS CINCTICORNIS.

Chrysops cincticornis, *Cat. of Diptera*, Pt. 1, 201.

72. CHRYSOPS CRUDELIS.

Niger; thoracis latera flava; abdominis latera basi flava; alæ hyalinæ, costa fascia apiceque nigris.

Chrysops crudelis, *Wied. Auss. Zweifl.* i. 195, 2.

73. CHRYSOPS GEMINATUS.

Nigellus; antennæ fuscæ, basi flavæ; thorax vittis duabus flavidis; abdomen flavum, maculis duabus obliquis baseos et utrinque binis conjunctis segmentorum sequentium nigris; pedes flavi, fusco varii; alæ limpidæ, costa fascia apiceque fuscis.

Chrysops geminatus, *Wied.*

Genus 15. GASTROXIDES.

Corpus mediocre, pubescens, oblongum, sat latum. Proboscis brevis. Antennæ 7-articulatæ, cylindricæ; articuli 1us et 2us hirti, æquales. Abdomen depressum, fœminæ apice compressum.

Gastroxides, *Saunders.*

Mediastinal vein ending at much before two-thirds of the length of the wing. Subcostal ending at before three-fourths of the length. Radial ending at nearer the tip of the wing than to the subcostal. First branch of the cubital simple, very slightly curved, forming a very obtuse and rounded angle near its base; second branch nearly straight, ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal on the border. Discal areolet elongated, hexagonal; fore and hind sides parallel.

1. GASTROXIDES ATER.

Atra; abdomen maris *fulvo late fasciatum; alæ nigro-fuscæ, fasciis duabus abbreviatis albis, margine postico cinereo.*

Gastroxides ater, *Saunders.*

a. From Mr. Saunders' collection.

Genus 16. HÆMATOPOTA.

Corpus mediocre, lineare, pubescens. Ocelli nulli. Antennæ 6-articulatæ, lanceolatæ, subretusæ; articulus 1us cylindricus, sat longus; 2us brevis, cyathiformis. Alæ parallelæ, deflexæ.

Hæmatopota, *Meig. Klass.* i. 162; *Fabr.*; *Latr.*; *Fall.*; *Meig.*; *Macq.*; *Zett.*
Tabanus, p., *Linn.*; *Fabr. Ent. Syst.*; *Gmel.*; *Schr.*; *Panz.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at a little beyond two-thirds of the length. Radial ending much nearer to the tip of the wing than to the subcostal. First branch of the cubital forked, very slightly curved, forming a slightly obtuse and not rounded angle near its base; hind branch straight, ending on the hind border at some distance from the tip. Four complete separate externo-medial veins. Subanal vein united to the anal close to the border. Discal areolet elongated, rather narrow, hexagonal; hind apical side full thrice the length of the fore apical side.

Europe.

1. HÆMATOPOTA PLUVIALIS.

Nigra (mas) *aut fusca* (fœm.); *caput canum*; *thorax* fœminæ *cinereo trivittatus*; *abdomen* maris *lateribus nonnunquam fulvis*, fœminæ *maculis cinereis trivittatum segmentorum marginibus posticis canis*; *tibiæ posteriores fulvæ*, *nigro bicinctæ*; *alæ cinereæ confertim albido subocellatæ*.

Tabanus pluvialis, *Linn.*
Hæmatopota pluvialis, *Fabr. Dahlb. Ins. Skad. och Nytt.* 307, 205. *Zell. Isis*, 1840, 520, 1.
Hæmatopota equorum, *Fabr.*
Var. Hæmatopota tenuicornis, *Macq.*
Var. Hæmatopota grandis, *Meig.*
Var. Hæmatopota longicornis, *Macq.*
Var. Hæmatopota elongata, *Lep. de St. Farg. et Serv. Encycl. Macq. Hist. Nat. Dipt.* i. 211, 5.
Var.? Hæmatopota variegata, *Fabr. Macq. Hist. Nat. Dipt.* i. 211, 6.
Var.? Hæmatopota lusitanica, *Guér. Icon. Règne Anim. Ins.* pl. 97, f. 4. *Texte* 542.

Var.? Hæmatopota gymnonota, *Brullé, Exped. Scient. de Morée, 3me Sér. Zool. Atlas*, pl. 47, f. 4.

a—f. England. From Mr. Stephens' collection.

North America.

2. HÆMATOPOTA PUNCTULATA.

Fœm. *Nigra; abdominis incisuræ albæ; tibiæ albo annulatæ; alæ fuscæ, albo punctatæ.*

Hæmatopota punctulata, *Macq. Dipt. Exot.* i. 1, 163, 2.

Carolina.

South America.

3. HÆMATOPOTA COARCTATA.

Nigra; abdomen basi coarctatum, fascia fusca albo limbata; alæ flavescentes, ad costam fuscanæ.

Hæmatopota coarctata, *Wied. Auss. Zweifl.* i. 578, 9.

Acanthocera?

Brazil.

4. HÆMATOPOTA EXSTINCTA.

Nigra; thorax aurato lineatus; abdomen aurato fasciatum; alæ limpidæ, ad costam fuscanæ.

Hæmatopota exstincta, *Wied. Auss. Zweifl.* i. 214, 2.

Brazil.

Africa.

A. Alæ strigis limpidis. - - - - imbrium, *Wied.*
B. Alæ maculis limpidis.
A. Antennæ fuscæ. - - - - - ocellata, *Wied.*
B. Antennæ fulvæ, apice nigræ. - - ruficornis, *Macq.*
C. Alæ strigis flavicantibus. - - - - variegata, *Fabr.*
D. Alæ albidæ. - - - - - - - lunata, *Fabr.*

5. HÆMATOPOTA IMBRIUM.

Fusca; thorax antice vittis postice maculis, scutellum, abdomen maculis trigonis lateralibusque rotundatis albidis; alæ fuscanæ, strigis albis anguloso arcuatis.

Hæmatopota imbrium, *Wied.*

6. Hæmatopota ocellata.

Cinereo-nigella; thorax vittis, abdomen maculis albis; alæ fuscanæ, ocellis pluribus albidis.

Hæmatopota ocellata, *Wied. Zool. Mag.* iii. 38, 56; *Dipt. Exot.* i. 100, 6; *Auss. Zweifl.* i. 217, 6.

Cape.

7. Hæmatopota ruficornis.

Mas. *Nigricans; antennæ fulvæ, apice nigræ; thorax lineis et abdomen vittis duabus albidis; pedes fulvi, tibiis posticis albido bifasciatis; alæ cinereæ, maculis albidis.*

Hæmatopota ruficornis, *Macq. Dipt. Exot. Suppl.* 1, 45, 3.

Port Natal.

8. Hæmatopota variegata.

Nigricans; antennæ basi flavicantes; thoraæ vittis cinereis; abdomen flavicans, fasciis emarginatis nigris; pedes flavicantes, tarsis fuscis; alæ strigis flavicantibus.

Hæmatopota variegata, *Fabr. Syst. Antl.* 109, 6. *Meig. Zweifl.* ii. 81, 3.

Morocco.

9. Hæmatopota lunata.

Nigra; thorax albo lineatus; abdomen cinereum, lunulis quadrifariis nigris; pedes testacei, femoribus nigris; alæ albidæ.

Tabanus lunatus, *Fabr. Ent. Syst.* iv. 370, 34.
Hæmatopota lunata, *Fabr. Syst. Antl.* 109, 7.

Barbary.

Asia.

10. Hæmatopota cana.

Hæmatopota cana, *Cat. of Diptera*, Pt. 1, 207.

A. Alæ fascia plagisque duabus limpidis. - cingulata, *Wied.*
B. Alæ guttis limpidis.
A. Corpus nigrum aut fuscum.
a. Thorax vittatus. - - - - - roralis, *Fabr.*
b. Thorax non vittatus.
a. Pedes obscuri. - - - - Javana, *Wied.*
b. Pedes fulvi. - - - - lunulata, *Macq.*
B. Corpus pallidum. - - - - irrorata, *Macq.*

11. Hæmatopota cingulata.

Fusca; antennæ flavæ, apice fuscæ; thorax vitta lata flavida; abdomen nigellum, incisuris albidis; tibiæ basi albæ; alæ basi fascia plagisque duabus incurvis limpidis.

Hæmatopota cingulata, *Wied. Auss. Zweifl.* i. 216, 5.
Java.

12. Hæmatopota roralis.

Fusco-cinerascens; antennæ flavæ; thorax et abdomen albido vittata; alæ limpido guttulatæ.

Hæmatopota roralis, *Fabr.*

13. Hæmatopota Javana.

Alæ infumatæ albido pictæ. Mas.—*Thorax margine postico scutelloque, abdomen incisuris albidis.* Fœm.—*Subcinereo-fuscana; abdomen vitta maculari albida, incisuris subrubidis, femora subrubida.*

Hæmatopota Javana, *Wied.*

14. Hæmatopota lunulata.

Fœm. *Nigra; antennæ basi pedesque fulva, femora fusco-fulva; tibiæ albidæ; alæ fuscæ, albo punctatæ, lunula alba.*

Hæmatopota lunulata, *Macq. Dipt. Exot. Suppl.* 3, 15, 4.
Java.

15. HÆMATOPOTA IRRORATA

Fœm. *Fulva; antennæ articulo* 1*o elongato cylindrico; tibiæ albo annulatæ; alæ rufo-fuscæ, albo punctatæ.*

Hæmatopota irrorata, *Macq. Dipt. Exot.* i. 1, 163, 1, pl. 19, f. 3.
Java.

Country unknown.

16. HÆMATOPOTA CONCENTRALIS.

Hæmatopota concentralis, *Cat. of Diptera*, Pt. 1, 207.

17. HÆMATOPOTA SERPENTINA.

Fusca; antennæ longitudine mediocres; thorax albido trivittatus; abdomen nigellum; vitta, maculis incisurisque albidis; alæ fuscæ, guttulis strigisque serpentinis albis.

Hæmatopota serpentina, *Wied. Auss. Zweifl.* i. 219, 8.

Genus 17. HEXATOMA.

Corpus lineare. Caput breve. Oculi sat magni. Ocelli nulli. Proboscis brevis. Antennæ filiformes, thorace paullo breviores; articulus 1us longus; 2us mediocris; 3us longissimus; 4us et 5us mediocres; 6us paullo longior. Thorax pubescens. Alæ angustæ. Abdominis segmenta 1um et 2um pubescentia. Tibiæ posticæ subciliatæ.

Hexatoma, *Meig. Zweifl.; Macq.; Blanch; Gim.*
Tabanus, p., *Fabr. Ent. Syst.; Schr.; Gmel.; Meig. Klass.*
Heptatoma, p., *Fabr. Syst. Antl.; Meig. Klass.; Latr.*

Mediastinal vein ending at beyond half the length of the wing. Subcostal ending at about three-fourths of the length. Radial ending at about half the distance between the tip of the wing and the subcostal. First branch of the cubital very slightly curved, forming an obtuse and rounded angle near its base; second branch slightly

curved, ending on the hind border far from the tip of the wing. Four complete separate externo-medial veins. Subanal vein united to the anal at some distance from the border. Discal areolet elongated, hexagonal.

1. HEXATOMA BIMACULATA.

Nigra; abdomen basi glaucescens; tibiæ albæ; alæ hyalinæ.

Hexatoma bimaculata, *Meig.*

a. Interlacken, Switzerland. Presented by F. Walker, Esq.

Genus 18. RHAPHIORHYNCHUS.

Caput depressum, thorace angustius. Epistoma referens processum subulatum, acutum, apice oblique deorsum directum. Ocelli tres. Proboscis retracta, capitulo parvo compresso, inter palporum basim conspicua. Palpi exserti, basi approximati, apice divergentes biarticulati; articulus 1us brevissimus; 2us quadruplo longior, crassus, subfusiformis, apice paulum incurvus. Antennæ approximatæ, porrectæ; articulus 1us perbrevis, subcylindricus; 2us brevissimus, cyathiformis.

Rhaphiorhynchus, *Wied. Dipt. Exot.* i. 60.

1. RHAPHIORHYNCHUS PLANIVENTRIS.

Sordide lilacinus; thorax fusco trivittatus; abdomen ferrugineum, fusco limbatum; tibiæ flavæ; alæ flavescentes.

Rhaphiorhynchus planiventris, *Wied. Dipt. Exot.* i. 60, 1; *Auss. Zweifl.* ii. 106, 6. *Macq. Dipt. Exot.* i. 1, 170, 1, pl. 20 f. 2.

Brazil.

Genus 19. ACANTHOMERA.

Caput mediocre, crassum, thoracis latitudine. Facies utrinque sulco profundo, tuberculo subconico medio. Ocelli tres. Proboscis retracta, parva. Palpi exserti, biarticulati, pilosi; articulus 1us cylindricus; 2us subulatus, 1o æqualis. Antennæ

porrectæ, basi approximatæ. Femora postica subtus unispinosa. Alæ divaricatæ.

Acanthomera, *Wied. Dipt. Exot.* i. 61; *Auss. Zweifl.* i. 107.

Costal vein ending at the tip of the wing. Mediastinal ending at a little before three-fourths of the length. Subcostal ending at a little beyond three-fourths of the length. Radial ending at about five-sixths of the length. Fore fork of the cubital undulating, ending at some distance in front of the tip of the wing; hind fork ending at far behind the tip of the wing. First and second submarginal veins separate, converging towards the border; third and fourth united at some distance from the border. Subanal and anal veins united near the border. Discal areolet hexagonal, broadest at its basal end.

West Indies.

1. ACANTHOMERA TABANINA.

Ferrugineus; thorax nigro quinquevittatus; abdomen fuscum, marginibus lateralibus baseos nigris; alæ pallide ferruginei, maculis obscurioribus.

Pantophthalmus tabaninus, *Thunberg, Act. Soc. Gothoburg*, 1819, 111, 7, pl. 7, f. 2.
Acanthomera tabanina, *Wied. Auss. Zweifl.* i. 110, 4.

South America.

2. ACANTHOMERA MAGNIFICA.

Acanthomera magnifica, *Diptera Saundersiana*, Pt. 1, 74, pl. 1, f. 1.

A. Abdomen nigrum.
  A. Thorax flavo vittatus. - - - - Heydenii, *Wied.*
  B. Thorax non vittatus. - - - - picta, *Wied.*
B. Abdomen fuscum aut pallidum.
  A. Abdomen albo notatum.
    a. Thorax rubido-fuscus. - - - seticornis, *Wied.*
    b. Thorax glaucescente-cinereus. - - flavipes, *Macq.*
    c. Thorax cacaino fuscus. - - - immains, *Wied.*
  B. Abdomen albo non notatum.
    a. Abdomen vitta nigra. - - - vittata, *Wied.*
    b. Abdomen nigro marginatum. - - crassipalpus, *Macq.*

3. Acanthomera Heydenii.

Fusca; antennæ nigro-fuscæ; thorax vitta flavida; abdomen atrum utrinque punctis binis niveis; tarsi postici basi flavescentes; alæ fuscescentes venis flavo limbatis.

Acanthomera Heydenii, *Wied.*

4. Acanthomera picta.

Canescens; abdomen nigrum, punctis utrinque binis albis; alæ fuscano variegatæ.

Acanthomera picta, *Wied.*

Brazil.

5. Acanthomera seticornis.

Rubido-fusca; thorax vittis tribus nigro-fuscis; abdomen ferrugineum, utrinque punctis duobus albis; alæ fuscanæ, venis limpido limbatis.

Acanthomera seticornis, *Wied.*

Brazil. Guatimala.

6. Acanthomera flavipes.

Fœm. *Glaucescente-cinerea; thorax vittis tribus, punctisque quatuor fuscis; abdomen fuscum, albo notatum; femora nigra; tibiæ flavæ, anticæ fuscæ; alæ fuscæ, venis flavo limbatis.*

Acanthomera flavipes, *Macq. Dipt. Exot. Suppl.* 2, 26, 4.

Brazil.

7. Acanthomera immanis.

Cacaina; thorax vittis binis flavidis; abdomen ferrugineum, segmentis ad margines posticos cacaino-fuscis, 2o 3oque utrinque albo uniguttatis; alæ fuscæ, venis flavo limbatis.

Acanthomera immanis, *Wied. Westw. Duncan, Nat. Libr.* i. 331, pl. 35, f. 2.

Surinam.

8. Acanthomera vittata.

Glaucescente-cinerea; thorax vittis tribus punctisque quatuor fuscis; abdomen ferrugineum, vitta nigra; pedes maris *ferruginei,* fœm. *fuscescentes; alæ fuscescentes, albido variæ.*

Acanthomera vittata, *Wied.*

Brazil.

9. Acanthomera crassipalpus.

Cæsia; palpi crassi; thorax vittis nigris; abdomen testaceum, nigro marginatum; pedes flavi, tibiis posticis femoribusque nigris; alæ fuscæ, venis flavo limbatis.

Acanthomera crassipalpus, *Macq. Dipt. Exot. Suppl.* 2, 27, 5, pl. 1, f. 3.

Guatimala.

ADDENDA.

Page 5.

PTILOCERA SMARAGDINA.

This may be a variety of the female of *P. quadridentata*.

a. Ceylon. Presented by R. Templeton, Esq.

Page 16.

CYPHOMYIA LEUCOCEPHALA.

a. Brazil. From Mr. Stephens' collection.

CYPHOMYIA ALBITARSIS.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.

Page 17.

CYPHOMYIA FASCIPES.

Fœm. Head pale testaceous, with white down. Thorax with three stripes of white tomentum. Pectus clothed with white tomentum and down. Abdomen with marginal silvery white tomentose spots. Legs black; tarsi white, black towards the tips.

a. Tapayos, Brazil. From Mr. Bates' collection.

Page 20.

HERMETIA ILLUCENS.

a. Tapayos, Brazil. From Mr. Bates' collection.

Page 21.

HERMETIA FLAVIPES.

Chrysochlora Andreas, *Cat. of Diptera*, Pt. 3, 525; *2nd Series*, 86, 3.

Described from an injured specimen.

a. Tapayos, Brazil. From Mr. Bates' collection.

HERMETIA APICALIS.

a—*c*. Santarem, Brazil. From Mr. Bates' collection.

Page 25.

ACANTHINA CONVEXA.

Mas. *Nigra; caput et antennæ fulva; thorax antice nonnihil elongatus et attenuatus, vittis duabus dorsalibus fasciisque sex lateralibus obliquis testaceo tomentosis, scutellum dentibus quatuor parvis fulvis armatum; abdomen contractum, fere rotundum, supra valde convexum, thorace brevius et latius; femora apice fulva; alæ cinereæ, fascia sublimpida.*

Male. Black. Head and antennæ tawny. Thorax somewhat elongated and attenuated in front, with two dorsal stripes, and on each side with three oblique bands of shining testaceous tomentum. Scutellum with four small tawny teeth. Abdomen contracted, nearly round, very convex above, shorter and broader than the thorax, with six short bands of shining whitish tomentum, two on each side and two slightly converging towards the tip. Tips of the femora tawny. Wings gray, with a diffused nearly limpid band across the middle; stigma and veins black; first branch of the cubital vein ending at one-third of the distance between the radial and the second branch; discal areolet hexagonal. Length of the body 2½ lines; of the wings 5 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

Acanthina plana.

Fœm. *Nigra, albido tomentosa; antennæ fulvæ, latæ, basi et apice nigricantes; thorax vix attenuatus, vittis duabus dorsalibus cinereo tomentosis; scutellum dentibus duabus validis testaceis armatum; abdomen ovatum, subcontractum, fere planum, thorace paullo longius et latius; tarsi posteriores fulvi; alæ cinerascentes, albido unifasciatæ.*

Fœm. Black, thinly covered beneath with whitish tomentum. Antennæ tawny, broad, compressed, fusiform, blackish at the base and at the tips. Thorax very slightly convex, a little narrower, but hardly lengthened in front, with two dorsal stripes of cinereous tomentum. Scutellum armed with two rather long and stout testaceous teeth. Abdomen oval, slightly contracted, nearly flat, a little longer and broader than the thorax. Posterior tarsi tawny, with black tips. Wings gray, dark gray along each side of a whitish band, which extends from the costa beyond the middle, and does not join the hind border; veins black; first branch of the cubital vein ending at full two-thirds of the distance between the radial and the second branch; four externo-medial veins, the third not extending to the border; discal areolet heptagonal. Length of the body 2 lines; of the wings 3½ lines.

This species differs still more than the preceding from the typical form of *Acanthina*, and appears to be a connecting link between that genus and *Clitellaria*, and, like many other species, its characters require an alteration in the diagnosis of the genus to which it is assigned, or the formation of a new genus.

a. Santarem, Brazil. From Mr. Bates' collection.

Note.—*Clitellaria Halala*, *C. Amenides*, and *C. varia* are very nearly allied to *Acanthina*, which ought, perhaps, to be united to *Clitellaria*.

Page 26.

Genus PROMERANISA.

Fœm. Caput antice conicum, valde elongatum. Antennæ 6-articulatæ, capitis longitudine, basi approximatæ; articulus 1us compressus, fere rotundus; 2us brevis; 3us et sequentes longi, lineares, cylindrici, arcte conjuncti; 4us 3o brevior; 5us 3o multo longior; 6us 4o æqualis. Scutellum bispinosum.

Fem. General structure like that of *Stratiomys*. Head conical and much elongated in front. Antennæ 6-jointed, as long as the head, almost contiguous at the base; first joint compressed, almost round; second short; third and three following joints linear, cylindrical, closely connected; fourth shorter than the third; fifth much longer than the third; sixth as long as the fourth. Thorax much longer than broad, slightly convex. Scutellum armed with two spines. Abdomen elliptical, depressed, broader and a little longer than the thorax. Legs moderately long. Structure of the veins like that of *Stratiomys;* first branch of the cubital vein indistinct; discal areolet hexagonal.

1. PROMERANISA VITTATA.

Fœm. *Pomacea; vertex et antennæ nigra, harum articulus 2us fulvus; thorax cupreo trivittatus; scutelli spinæ fulvæ; pectus vittis duabus mediis maculisque duabus lateralibus fulvis; abdomen supra nigrum, disco antice viridi postice fulvo; pedes fulvi, femoribus, tibiis tarsisque apice nigricantibus; alæ cinereæ, ad costam fuscæ.*

Fem. Apple-green. Head black above in front of the eyes; vertex partly brown in front and behind. Proboscis black. Antennæ black; second joint tawny. Thorax with three dark cupreous stripes, the middle one very broad; spines of the scutellum tawny. Pectus with two tawny middle stripes, and with a tawny spot on each side. Abdomen black above; its disk green in front, tawny behind. Legs tawny; tips of the femora, of the tibiæ and of the tarsi blackish. Wings gray, brown along the costa; veins distinct, dark brown. Halteres tawny, with green knobs. Length of the body 4 lines; of the wings 7 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

Page 28.

STRATIOMYS EQUESTRIS.

Stratiomys equestris, *Loew, Linn. Ent.* i. 462, 1.
Posen.

STRATIOMYS FLAVIVENTRIS.

Nigro flavoque varia ; facies utrinque macula magna flava.

Stratiomys flaviventris, *Loew*, *Linn. Ent.* i. 464, 2.

Sicily.

STRATIOMYS TIGRINA.

Odontomyia tigrina, *Loew*, *Linn. Ent.* i. 468, 1.

STRATIOMYS FLAVISSIMA.

Stratiomys flavissima, *Panz. Faun. Germ.* XXXV. 24.
Odontomyia flavissima, *Loew*, *Linn. Ent.* i. 469, 2.
Fœm. Stratiomys decora, *Wied. ; Meig.*
Odontomyia decora, *Macq.*
Stratiomys infuscata? *Meig. Zweifl.* vi. 347, 27.

Hungary. Greece. Asia Minor.

STRATIOMYS ANNULATA.

Odontomyia annulata, *Loew*, *Linn. Ent.* i. 471, 3.
Stratiomys septemguttata, *Wied. ; Meig.*

STRATIOMYS DISCOLOR.

Nigra. Mas.—*Abdomen aureo tomentosum, maculis lateralibus ventreque flavis.* Fœm.—*Abdomen flavo marginatum, subtus nigro flavoque varium.*

Odontomyia discolor, *Loew*, *Linn. Ent.* i. 473, 4.

Asia Minor (Patara).

STRATIOMYS ARGENTATA.

Venula transversalis pone stigma nulla.

Stratiomys paludosa, *Schumm*, *Schles. Gesellsch*, 1836, 85 ; 1840, 15.
Odontomyia argentata, *Loew*, *Linn. Ent.* i. 476, 5.

STRATIOMYS ORNATA.

Odontomyia ornata, *Loew, Linn. Ent.* i. 476, 6.
Italy. Sicily.

STRATIOMYS SIGNATICORNIS.

Nigra; pedes flavi. Mas.—*Abdomen maculis ventreque flavis.* Fœm.—*Facies et pleurarum maculæ flavicantes; abdomen apice, maculis lateralibus et ventre virescentibus.*

Odontomyia signaticornis, *Loew, Linn. Ent.* i. 477, 7.
Asia Minor (Patara).

STRATIOMYS HYDROLEON.

Odontomyia Hydroleon, *Loew, Linn. Ent.* i. 481, 8.
Stratiomys vulpina? *Panz. Faun. Germ.* lviii. 24.

STRATIOMYS ANGULATA.

Stratiomys angulata, *Panz. Faun. Germ.* lviii. 19.
Stratiomys Hydropota? *Meig; Zett.*
Odontomyia Hydropota? *Macq.*
Stratiomys brevicornis, *Loew.*
Stratiomys ruficornis, *Zett.*
Odontomyia angulata, *Loew, Linn. Ent.* i. 483, 9.
Odontomyia latifasciata? *Macq.*

STRATIOMYS HYDROPHILA.

Nigra; abdomen viride, fascia angulata angusta, postice parum dilatata, nigra.

Stratiomys hydrophila, *Loew, Linn. Ent.* i. 486, 10.
Sicily. Asia Minor.

STRATIOMYS FELINA.

Abdomen superne nigrum, margine angusto maculisque lateralibus trigonis viridibus.

Stratiomys felina, *Panz. Faun. Germ.* lviii. 22.
Stratiomys Hydropota, Var. *b.? Zett. Dipt. Scand.* i. 139. *Meig.*
Odontomyia felina, *Loew, Linn. Ent.* i. 487, 11.

STRATIOMYS PERSONATA.

Mas. *Nigra; abdomen margine anguste viridi; femora nigro-picea, apice flava.*

Odontomyia personata, *Loew, Linn. Ent.* i. 490, 12.
Dalmatia.

STRATIOMYS VIRIDULA.

Odontomyia viridula, *Loew, Linn. Ent.* i. 491, 13.

STRATIOMYS INTERRUPTA.

Nigra; abdomen viride, macula subapicali nigra in mare *parva, in* fœminæ *maxima.*

Odontomyia interrupta, *Loew, Linn. Ent.* i. 493, 14.
Asia Minor (Furnas and Patara).

STRATIOMYS SEMIVIOLACEA.

Atra; abdominis latera crocea; pedes fusci; alæ luridæ, ad costam fuscæ, venis nigris.

Odontomyia semiviolacea, *Brullé, Exped. Scient. Morée, 3me Sér. Zool.* pl. 47, f. 5.
Greece.

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STRATIOMYS MEIGENII.

Male.? Black. Abdomen with a rather large nearly triangular testaceous spot on each side of the second segment; third and fourth segments with a smaller and paler spot on each side; third with a whitish transverse spot on each side; fourth with a short whitish streak on each side of the hind border; fifth with a whitish dorsal stripe, which does not extend to the fore border; second and third and hind borders of the following ventral segments whitish. Wings brown. Halteres green beneath at the tips.

This may be the male of *S. Meigenii*, or of *S. nigrifrons*, or these two may be varieties of one species.

a. La Chine, near Montreal, Canada. Presented by Dr. Barnston.

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STRATIOMYS CANADENSIS.

Nigra; abdomen viride, vitta dorsali nigra, basi dilatata, lateribus angulatis, postice rotundata, apicem fere attingente; pedes testacei; alæ limpidæ, ad costam subtestaceæ, venis pallidis; halteres testacei, apice pomacei.

Nearly allied to *S. Paron*. *Male.*—Black. Proboscis and antennæ black. Thorax clothed with pale hairs; scutellum black, armed with two black spines. Abdomen green, with a black dorsal stripe which extends nearly to the hind border; this stripe occupies nearly the whole breadth of the first segment; on the second it decreases in breadth from the fore to the hind border, on the third and on the fourth it has nearly parallel sides, but is broader on the fourth than on the third; on the fifth it is nearly semicircular. Legs testaceous. Wings limpid, with a testaceous tinge along the costa; veins white, testaceous towards the costa. Halteres testaceous, with apple-green knobs. Length of the body 3½ lines; of the wings 7 lines.

a. La Chine, near Montreal, Canada. Presented by Dr. Barnston.

STRATIOMYS LEFEBVREI.

Fem. Abdomen above with a black disk, and with black bands on the fore borders of the segments. Tarsi green towards the base. Hind femora hardly marked with black at the tips.

a. Mexico. From Mr. Glennie's collection.

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STRATIOMYS MUTABILIS.

a. Brazil. From Mr. Harrington's collection.

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STRATIOMYS VIRENS.

a, *b*. Santarem, Brazil. From Mr. Bates' collection.

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STRATIOMYS LONGIFRONS.

Stratiomys longifrons, *Rondani*, *Esame di varie Specie d'insetti Ditteri Brasiliani*. *Studi Entom.* 1848. *Fasc.* i. 101.

Brazil.

STRATIOMYS PELLUCIDA.

Stratiomys pellucida, *Rondani*, *Ditteri Brasiliani*, 1848.

Brazil.

STRATIOMYS SERICEIVENTRIS.

Stratiomys sericeiventris, *Rondani*, *Ditteri Brasiliani*, 1848.

Brazil.

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STRATIOMYS AURIFLUA.

Stratiomys auriflua, *Erichs. Reis. in der Regents Algier, von Wagner*, iii. 103, 56, pl. 9. *Macq. Expl. Scient. Alg.* iii. *Ins.* 428, 39.

Algeria.

STRATIOMYS BARCA.

a. Shanghai, North China. From Mr. Fortune's collection.

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STRATIOMYS IALEMUS.

a. Melbourne, Australia. From Mr. Baly's collection.

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STRATIOMYS CARINATA.

Var.? Male and Fem. Black. Head testaceous in front and beneath. Proboscis black. Antennæ tawny. Thorax æneous black. Scutellum yellow along the hind border and with yellow teeth. Pectus testaceous on each side. Abdomen green, with a bread dorsal black band, which, in the male, is slightly dilated at each end, and is rather narrower than in the female. Legs testaceous. Wings white; veins white, testaceous towards the costa. Length of the body 3 lines; of the wings 6 lines.

a, *b*. Melbourne, Australia. From Mr. Baly's collection.

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STRATIOMYS CHLORIS.

a. New Zealand. Presented by Col. Bolton.

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CLITELLARIA UNICOLOR.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.
b. Santarem, Brazil. From Mr. Bates' collection.
c. Ega, Brazil. From Mr. Bates' collection.

CLITELLARIA SCUTELLARIS.

Viridis; caput nigrum; antennæ fulvæ; thorax vitta media maculisque duabus lateralibus purpureis; scutellum productum, maximum, obconicum, bidentatum; abdomen atrum, lateribus cyaneis, segmentorum marginibus posticis viridibus, ventre fulvo; pedes nigri, femoribus apice fulvis; alæ cinereæ.

Metallic-green, clothed with whitish down. Head black. Antennæ tawny, nearly fusiform, shorter than the head; arista very short. Thorax with a purple dorsal stripe, and with a large purple spot on each side. Scutellum very hairy, obconical, very large, extending over half the length of the abdomen, armed at the tip with two long stout teeth, and on each side with three small teeth. Abdomen deep black, round, much broader, but hardly longer, than the thorax, blue on each side; hind borders of the segments green; under side dull tawny. Legs black, stout, pubescent; femora tawny towards the tips. Wings gray, darkest along the costa as far as the stigma, which is blackish; veins black; first branch of the cubital vein nearly straight, moderately long, ending at a little before half the length between the radial and the second branch, which ends very little in front of the tip of the wing; three complete externo-medial veins; discal areolet hexagonal. Length of the body 2 lines; of the wings 4 lines.

This insect, like most of the exotic species, differs in structure from the typical *C. ephippium*, and will probably be soon ranked as another genus.

a. Santarem, Brazil. From Mr. Bates' collection.

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CYCLOGASTER ATRATA.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.

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DICRANOPHORA FURCIFERA.

a. Santarem, Brazil. From Mr. Bates' collection.

Page 80.

NEMOTELUS PROBOSCIDEUS.

Niger; rostrum longissime productum, superius immaculatum; pedes fusco-nigri, genubus metatarsisque basi flavescentibus; abdomen incisuris lateralibus albo flavescentibus.

Nemotelus proboscideus, *Loew, Linn. Ent.* i. 423, 1.
Sicily.

NEMOTELUS LASIOPS.

Niger; rostrum crassius, modice productum. Mas.—*Caput immaculatum; oculi longe pilosi.* Fœm.—*Frons punctis duobus lateralibus albis; oculi subnudi.*

Nemotelus lasiops, *Loew, Linn. Ent.* i. 426, 2.
Sicily.

NEMOTELUS ANCHORA.

Niger; rostrum breve, in utroque sexu immaculatum; oculi nudiusculi. Mas.—*Abdomen album, punctis trifariam dispositis fasciaque apicali nigris.*

Nemotelus anchora, *Loew, Linn. Ent.* i. 429, 3.
Sicily.

NEMOTELUS ULIGINOSUS.

Rostrum modice productum, in utroque sexu albo maculatum.

Nemotelus uliginosus, *Loew, Linn. Ent.* i. 432, 4.
Var. Nemotelus bifasciatus, *Meig.; Zett.*

NEMOTELUS PICA.

Rostrum modice productum, in utroque sexu albo maculatum.

Nemotelus Pica, *Loew, Linn. Ent.* i. 436, 5.

Nemotelus notatus.

Nemotelus notatus, *Loew*, *Linn. Ent.* i. 437, 6.

Nemotelus brevirostris.

Rostrum brevissimum; frons lineolis albis in oculorum margine subperpendicularibus; abdomen nigrum, superius punctis tribus margineque omni albidis.

Nemotelus uliginosus? *Loew*, *Isis*, 1840, 554, 2.
Nemotelus globuliceps? *Loew*, *Linn. Ent.* i. 441, 7.

Nemotelus brachystomus.

Mas. *Niger; rostrum omnium brevissimum vix ullum; macula supra antennas alba; abdomen albo inferius immaculatum, superius basi, macula segmenti 3i fasciisque duabus apicalibus nigris.*

Nemotelus brachystomus, *Loew*, *Linn. Ent.* i. 443, 8.

Dalmatia. Greece. Asia Minor.

Nemotelus pantherinus.

Rostrum modice productum, acutum, in mare *albo maculatum, in* fœmina *immaculatum.*

Nemotelus pantherinus, *Loew*, *Linn. Ent.* i. 445, 9.

Nemotelus fraternus.

Niger; rostrum breve, conicum, obtusiusculum, in mare *albo maculatum, in* fœmina *immaculatum; abdomen* maris *utrinque album, superius basi, fasciisque duabus segmenti 4 et 5 contiguis, lateribus parum abbreviatis nigris.*

Nemotelus fraternus, *Loew*, *Linn. Ent.* i. 448, 10.

West Germany.

Nemotelus gracilis.

Niger; rostrum breve, acutiusculum, in mare *albo maculatum, in* fœmina *immaculatum; abdomen* maris *utrinque album, basi maculisque duabus segmenti 4i cum fascia segmenti sequentis abbreviata connexis (interdum confluentibus, interdum evanescentibus), nigris.*

Nemotelus gracilis, *Loew, Linn. Ent.* i. 449, 11.

Asia Minor (Makri and Patara).

Nemotelus bipunctatus.

Mas. *Niger; rostrum modice productum, superius maculatum; punctum album utrinque unum inter scutellum et alæ basin.*

Nemotelus bipunctatus, *Loew, Linn. Ent.* i. 451, 12.

Asia Minor (Makri).

Nemotelus nigrifrons.

Mas. *Niger; rostrum breve, immaculatum; abdomen album utrinque, basi fasciaque apicali nigris.*

Nemotelus nigrifrons, *Loew, Linn. Ent.* i. 452, 13.

Sicily.

Nemotelus argentifer.

Niger; rostrum in utroque sexu albo maculatum.

Nemotelus argentifer, *Loew, Linn. Ent.* i. 453, 14.

Greece, Asia Minor (Syra and Mermeriza).

Nemotelus nigrinus.

Rostrum immaculatum.

Nemotelus nigrinus, *Loew, Linn. Ent.* i. 454, 15.

NEMOTELUS LONGIROSTRIS.

Rostrum longissime productum, superius immaculatum; genua tarsique flava.

Nemotelus longirostris, *Loew*, *Linn. Ent.* i. 455, 16.

NEMOTELUS PUNCTATUS.

Nemotelus punctatus, *Loew*, *Linn. Ent.* i. 456, 17.

NEMOTELUS NIGRITUS.

Nemotelus nigritus, *Loew*, *Linn. Ent.* i. 457, 18.
France.

NEMOTELUS BREVIROSTRIS.

Nemotelus brevirostris, *Loew*, *Linn. Ent.* i. 457, 19.
Austria.

NEMOTELUS VENTRALIS.

Nemotelus ventralis, *Loew*, *Linn. Ent.* i. 458, 20.

NEMOTELUS PALUDOSUS.

Nemotelus paludosus, *Loew*, *Linn. Ent.* i. 458, 21.

NEMOTELUS FRONTALIS.

Nemotelus frontalis, *Loew*, *Linn. Ent.* i. 459, 22.
Nemotelus nigrinus, Var.?

NEMOTELUS NILOTICUS.

Nemotelus niloticus, *Loew*, *Linn. Ent.* i. 459, 23.

Fœm. *Abdomen fasciis nigris.*
Nemotelus fasciatus, *Macq. Hist Nat. Dipt.* i. 267, 7.

NEMOTELUS CINGULATUS.

Nigro-subæneus, aureo brevissime pubescens; abdomen marginibus, cingulisque (1o late interrupto) flavescentibus; pedes genubus tarsisque flavescentibus; alæ venis costalibus flavescentibus.

Nemotelus cingulatus, *L. Duf. Ann. Soc. Ent. Fr.* 2*me Sér.* x. 5, 1, pl. 1, No. 1, f. 1—5.

Madrid, Spain.

NEMOTELUS LATERALIS.

Nigro-æneus, aureo brevissime pubescens; abdominis segmenta latere solum tenuiter penultimum postice vix, flavescentia; pedum genua tarsique flavescentia; alæ venis costalibus flavescentibus.

Nemotelus lateralis, *L. Duf. Ann. Soc. Ent. Fr.* 2*me Sér.* x. 6, 2, pl. 1, No. 1, f. 6.

Madrid, Spain.

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SARGUS LINEARIS.

Fœm. *Rufo-testaceus; caput nigrum, albo biguttatum; thorax disco supra purpureo subtus nigro, lateribus albido univittatis; abdomen viride, valde elongatum, basi purpureum, segmentorum ventralium marginibus posticis testaceis; pedes testacei, tibiæ posticæ fasciis duabus nigricantibus, tarsis posticis nigris; alæ fere limpidæ.*

Fem. Nearly allied to *S. bipunctatus*. Head black, with two white dots in front. Mouth testaceous. Antennæ black. Thorax reddish testaceous, with a whitish stripe on each side; disk purple above, black beneath. Abdomen dark green, very long, nearly linear, acuminated at the tip, purple towards the base: hind borders of the ventral segments pale testaceous. Legs testaceous; hind tibiæ with two broad blackish bands; hind tarsi black. Wings nearly limpid; stigma blackish; veins black, testaceous at the base. Halteres testaceous. Length of the body 6 lines; of the wings 10 lines.

♀. Mexico. From Mr. Gleunie's collection.

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SARGUS STAMINEUS.

a. Santarem, Brazil. From Mr. Bates' collection.

Page 94.

SARGUS MELLEUS.

Sargus melleus, *Rondani, Ditteri Brasiliana*, 1848.
Brazil.

SARGUS OPULENTUS.

Mas. *Viridis, cyaneo purpureoque varius; caput antice fuscescens, subtus testaceum; antennæ fuscæ, basi testaceæ; abdomen purpureum, segmento 2o testaceo; pedes albido testacei, femoribus posticis nigricantibus, tibiis posticis apice metatarsisque posticis basi pallide fuscis; alæ fuscæ.*

Male. Head brownish in front, testaceous beneath. Antennæ brown, testaceous towards the base; arista black, slender, extremely long. Thorax bright green, partly blue and purple, brownish testaceous on each side and beneath. Abdomen purple, slightly widening from the base of the second segment to the tip; second segment testaceous, purple above at the tip and on each side. Legs whitish testaceous; hind femora blackish, pale at the base; hind tibiæ at the tips and hind tarsi at the base pale brown; tips of the latter brown. Wings brown, grayish at the tips and on the disks of the posterior areolets; veins black. Halteres testaceous, with apple-green tips. Length of the body 6 lines; of the wings 12 lines.

a. Parà. From Mr. Bates' collection.

SARGUS CONTRACTUS.

Mas. *Aureo-viridis; caput antice fulvum; antennæ fuscæ, basi fulvæ; abdomen cupreum, segmentorum marginibus posticis fulvis; pedes fulvi, femoribus tibiisque posticis nigris; alæ cinereæ.*

Male. Head tawny in front. Proboscis pale testaceous. Antennæ brown, tawny at the base; arista black, slender, short. Thorax

golden green. Abdomen cupreous, much contracted and very slender, except towards the tip, with a tawny band on the hind border of each segment. Legs tawny, black; hind tarsi black towards the tips. Wings dark gray; stigma brown. Halteres testaceous. Length of the body 5 lines; of the wings 9 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

SARGUS ELONGATUS.

a. Port Natal. From Mr. Stevens' collection.

Page 95.

SARGUS TENEBRIFER.

a—*c*. Shanghai, North China. From Mr. Fortune's collection.

Page 96.

SARGUS METALLINUS.

a. North Bengal. From Miss Campbell's collection.
b. Malabar Coast. Presented by S. Ward, Esq.

Page 107.

Agapophytus and *Cyclotelus* appear to be two distinct groups of one genus, and the characters assigned to the former in page 107 belong to the latter, which represents in South America the *Agapophyti* of Australia.

Genus AGAPOPHYTUS.

Antennæ 5-articulatæ? capitis longitudine; articulus 1us cylindricus, sat longus; 2us 3us et 5us brevissimi; 4us longissimus. Femora postica sulcata.

Antennæ 5-jointed? as long as the head; first joint cylindrical, moderately long; second very short; flagellum fusiform, compressed, full twice the length of the first joint, composed of three joints, of which the first and third are extremely short. Hind femora channelled. Wings with four complete separate externo-medial veins; subanal vein united to the anal at some little distance from the border.

1. AGAPOPHYTUS AUSTRALASIÆ.

Ater; antennæ articulo 1o flavo; pedes antici flavi femoribus basi nigris, posteriores nigri metatarsis flavis; alæ hyalinæ obscure fasciatæ, venis nigris.

Agapophytus Australasiæ, *Guérin.*

Port Jackson.

2. AGAPOPHYTUS PYRRHOTELUS.

Niger; antennæ rufo-luteæ, basi ferrugineæ; tibiæ anticæ luteæ, intermediæ piceæ apice albidæ, posticæ piceæ; tarsi posteriores basi albidi; alæ subcinereæ, nigro bifasciatæ, apice luteæ.

Black. Antennæ reddish luteous, ferruginous towards the base. Fore tibiæ luteous; posterior tibiæ piceous, the middle pair whitish towards the tips; posterior tarsi whitish towards the base. Wings very slightly grayish, with two black bands, one a little before the middle, the other beyond the middle, between it and the tip there is a large luteous spot, which is partly bordered with gray; veins black. Halteres black, with whitish tips. Length of the body 5 lines; of the wings 8 lines.

a. Moreton Bay, Australia. From Mr. Strange's collection.

3. AGAPOPHYTUS EXTINCTUS.

Niger; antennæ basi fulvæ; abdominis latera canescentia; tarsi postici basi albi; alæ sublimpidæ, fascia apicibusque cinereis.

Black. Proboscis pale yellow. Antennæ mutilated, tawny at the base. Abdomen slightly hoary on each side, clothed with pale hairs at the tip. Hind tarsi white towards the base. Wings nearly limpid, gray for more than one-third of the length from the tips; a slight gray band at a little before the middle. Halteres white towards the tips. Length of the body 3¼ lines; of the wings 6 lines.

a. ——— ?

Page 111.

PHYCUS CANESCENS.

a. East Indies. From Mr. Stevens' collection.

Page 114.

Genus ARTHROPEAS.

Proboscis brevis. Palpi proboscide non longiores, biarticulati; articulus 1us 2o longior; 2us 1o non crassior. Antennæ 10-articulatæ; articuli 1us et 2us æquales, cylindrici; 3us et sequentes breves, arcte connexi, flagellum fusiforme fingentes. Pedes mediocriter longi; tibiæ calcaratæ; metatarsi elongati. Ungues distincti. Onychia tria.

Arthropeas, *Loew, Ent. Zeit. Stett.* 1850, xi. 304.

Antennæ 10-jointed, lanceolate, a little longer than the head; first and second joints equal, transverse; third obovate; fourth, fifth and sixth transverse; seventh and eighth much longer than broad; ninth a little shorter than the eighth; tenth acuminated, about twice the length of the ninth. Abdomen elongate-obconical. Legs moderately long and slender. Wings rather narrower, moderately long. Subcostal vein ending at beyond half the length of the wing; mediastinal ending at before two-thirds of the length; radial ending at about three-fourths of the length; first branch of the cubital undulating, ending at a little in front of the tip of the wing; second branch ending at a little behind the tip; four separate externo-medial veins; subanal vein joining the anal on the border of the wing; discal areolet pentagonal, its fore side and its hind side curved and nearly parallel.

1. Arthropeas sibirica.

Ochraceo-flava; thorax nigro trivittatus; abdomen aurantiaco rufum fasciis nigris; alæ ochraceo-flavæ, nigro guttatæ.

Arthropeas sibirica, *Loew, Ent. Zeit. Stett.* 1850, xi. 305, pl. 1, f. 43—46.

Siberia.

Page 121.

Pangonia basalis.

Var. Fem. Head tawny in front. Antennæ wholly tawny. Wings wholly grayish brown, a little darker along the costa.

a. Tapayos, Brazil. From Mr. Bates' collection.

In this specimen the hind branch of the cubital vein is simple in one wing, but rejects a short branch in the other.

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PANGONIA SORBENS.

Fem. Var. Piceous. Head in front, antennæ and abdomen ferruginous. Head beneath and pectus clothed with white hairs. Abdomen with a piceous spot at the base. Legs tawny. Wings grayish brown, darker along the costa and on the fork of the cubital vein, and on the transverse veinlets.

In this species the hind branch of the cubital vein does not, as in *P. basalis*, join the first externo-medial vein on the border, but at a short distance from it, and thereby forms a petiolated areolet.

a. Santarem, Brazil. From Mr. Bates' collection.

Page 131.

PANGONIA SUTURALIS.

Pangonia suturalis, *Rondani, Ditteri Brasiliani*, 1848.
Brazil.

Page 132.

NOTE.—*Pangonia furcata, &c.* is inadvertently inserted *below* instead of *above* S. Africa.

PANGONIA FUMIFERA.

Fœm. *Picea; caput et pectus albo hirta, illum antice ferrugineum; antennæ fulvæ; proboscis corporis dimidio longior; abdomen ferrugineum, fasciculis dorsalibus et apicalibus albis; pedes ferruginei, tarsis piceis; alæ cinereæ, ad costam fuscæ, apud venas transversas obscuriores.*

Fem. Piceous. Head ferruginous in front, clothed beneath with white hairs. Proboscis black, much more than half the length of the body. Antennæ tawny, darker towards the tips. Pectus and sides of the thorax clothed with white hairs. Wings gray, brown towards the costa; transverse veinlets and angle of the cubital vein

clouded with darker brown; fore branch of the cubital vein forming a slightly obtuse angle, which has no rudiment of a vein; hind branch joining the first externo-medial at a short distance from the border of the wing. Abdomen pale ferruginous, semipellucid, darker above than beneath, with a patch of white hairs on the hind border of each segment, and one on each side at the tip. Legs tawny; tarsi piceous, tawny at the base. Length of the body 5 lines; of the wings 10 lines.

This species much resembles *P. sorbens*, but the latter has a longer proboscis, and its abdomen is without the dorsal patches of white hairs.

a. Santarem, Brazil. From Mr. Bates' collection.

Page 139.

PANGONIA AMBOINENSIS.

Fem. Black. Head beneath, pectus and sides of the thorax clothed with gilded hairs. Proboscis much longer than the body. Thorax covered above with short black hairs. Abdomen piceous black; first, second and third segments tawny, with a black dorsal stripe; under side mostly ferruginous. Legs tawny. Wings brown; first fore fork of the cubital vein rejecting a short branch; hind fork approaching near to the tip of the first externo-medial vein.

a. Sikkim Himalaya, North India. From Dr. Hooker's collection.

PANGONIA TAPROBANES.

Fœm. *Nigro-picea; proboscis corpore multo brevior; antennæ ferrugineæ aut luteæ; thorax testaceo quadrivittatus; abdomen fulvum, vitta dorsali apiceque piceis; pedes fulvi; alæ fuscæ, areolarum marginalium discis cinereis, venis ferrugineis.*

Fem. Piceous black. Head clothed with testaceous hairs beneath, black and shining in front, clothed elsewhere with testaceous tomentum, with the exception of the frontal callus, which is black and nearly fusiform. Proboscis much shorter than the body. Antennæ ferruginous. Thorax with four testaceous stripes. Pectus clothed with testaceous hairs. Abdomen tawny, with a piceous dorsal stripe, which is dilated towards the tip, and there occupies the

the whole breadth. Legs tawny. Wings brown; disks of the marginal areolets gray; veins ferruginous; fore fork of the cubital vein rejecting a moderately long branch; hind fork approaching on the border of the wing very near to the first externo-medial vein. Length of the body 7 lines; of the wings 14 lines.

Var. β. Antennæ luteous. Dorsal stripe of the abdomen interrupted on the hind borders of the segments. Branch of the cubital vein much longer than in Var. *a*.

a, *b*. Ceylon. Presented by R. Templeton, Esq.

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PANGONIA SOLIDA.

a, *b*. Van Dieman's Land. Presented by Morton Allport, Esq.

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PANGONIA INCONSPICUA.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.

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DICHELACERA T-NIGRUM.

Var.? Fœm. *Aurata, palpi fulvi; antennæ fulvæ, basi lutea, apice nigræ; thorax fascia scutelloque fuscis; abdomen luteum, apice fuscum; pedes lutei, tibiis tarsisque anticis nigris; alæ limpidæ, apud costam flavescentes, vitta brevi postica fasciaque furcata fuscis.*

Var.? Fem. Gilded yellow. Head in front with a large triangular shining piceous callus. Eyes bronzed. Proboscis black, rather long. Palpi tawny. Antennæ black; first and second joints luteous; third tawny towards the base, with a long slender tawny horn. Thorax with a brown band by the base of the wings. Scutellum brown. Abdomen luteous, brown towards the tip. Legs luteous; fore tibiæ and fore tarsi black. Wings nearly limpid, with a yellow tinge in front and towards the base, brown along the costa, with an elongated brown spot between the subanal vein and the anal, and with a forked brown band at two-thirds of the length;

fore branch of the cubital vein simple, forming an obtuse and rounded angle. Halteres tawny, with pale yellow knobs. Length of the body 4½ lines; of the wings 8 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

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For Corpus nigrum, *read* Corpus nigrum, maculis aut vittis pallidis.

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TABANUS CONFLIGENS.

Tabanus tenens (Nomen bis lectum), No. 247.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.

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TABANUS UNICOLOR.

a. Santarem, Brazil. From Mr. Bates' collection.

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TABANUS TRILINEATUS.

a. Rio Tapayos, Brazil. From Mr. Bates' collection.

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TABANUS PUNCTUM.

Tabanus punctum, *Rondani*, *Ditteri Brasiliani*, 1848. Brazil.

TABANUS PICEIVENTRIS.

Tabanus piceiventris, *Rondani*, *Ditteri Brasiliani*, 1848. Brazil.

TABANUS INNOTESCENS.

Fœm. *Rufus; caput albo tomentosum et pilosum; palpi albido testacei; antennæ ferrugineæ, basi testaceæ, apice nigræ, articulo 3o vix cornuto; pectus apud discum cinereum; abdomen basi testaceum; pedes fulvi, tarsis nigris; alæ subcinereo hyalinæ, basi et apud costam luridæ.*

Fem. Red. Head with white hairs and tomentum, testaceous between the eyes, with the exception of a long slender shining ferruginous callus. Eyes bronzed, with very small facets. Proboscis black. Palpi whitish testaceous. Antennæ ferruginous, very small, testaceous at the base, black towards the tips; third joint with a very small slightly obtuse tooth. Thorax thinly covered with white tomentum. Disk of the pectus gray. Abdomen testaceous towards the base. Legs tawny; tarsi black, except at the base. Wings slightly grayish hyaline, lurid at the base and along the costa as far as the stigma, which is brown; veins black; fore branch of the cubital vein simple, forming an obtuse and somewhat founded angle. Length of the body 8 lines; of the wings 15 lines.

a. Tapayos, Brazil. From Mr. Bates' collection.

TABANUS CHRYSOLEUCUS.

Mas. *Luteus; caput et pectus albo tomentosa et pilosa; palpi albi; antennæ fulvæ, apice nigræ, articulo 3o cornuto, abdomen fuscum, apice nigrum, subtus testaceum, maculis dorsalibus fasciisque ventralibus albis; pedes nigri, tibiis albis; ala limpidæ, basi vitta postica fasciaque nigricantibus.*

Male. Head and pectus with white hairs and tomentum. Eyes red, composed of large facets; fore part bronzed, with very small facets. Proboscis black. Palpi white. Antennæ tawny, with black tips; third joint with a rather long acute tooth. Thorax thickly clothed with bright luteous hairs. Abdomen brown, black towards the tip, testaceous beneath; hind borders of the segments whitish beneath, and with whitish triangular spots above. Legs black; anterior tibiæ white, with black tips; hind tibiæ dingy whitish towards the base. Wings limpid, blackish at the base, with a blackish stripe which extends between the subanal vein and the anal towards the border, and with a blackish band extending from the stigma nearly to the hind border; veins black; fore branch

of the cubital vein simple, forming an obtuse and somewhat rounded angle. Halteres black, white towards the base. Length of the body 4 lines; of the wings 8 lines.

a. Santarem, Brazil. From Mr. Bates' collection.

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TABANUS LATIPES.

Var.? Fem. Bright testaceous. Head and thorax covered with testaceous tomentum and down. Head with testaceous hairs beneath; callus black, shining, short and transverse. Eyes with very small facets. Proboscis black. Antennæ black, short and slender; third joint with a very small obtuse tooth. Thorax with two patches of white down on each side, one at the base of the wing, the other behind. Abdomen more tawny above than the thorax; under side paler testaceous, with a black stripe along each side, and a large yellow spot on each side at the base; a white band on the hind border of each segment. Legs black; fore tibiæ much dilated. Wings blackish brown, grayish along the hind border, limpid, with the exception of the costa, for more than one-third of the length from the tips; a limpid dot near the base, and a large subquadrate limpid spot in the disk before the middle; fore branch of the cubital vein simple, not angular.

a. Port Natal. From Mr. Plant's collection.

T. fenestratus, p. 264, may be a variety of this species.

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TABANUS ORIENTIS.

a. Sikkim Himalaya, North India. From Dr. Hooker's collection.

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TABANUS EXPLICATUS.

Fœm. *Niger; caput testaceo tomentosum; antennæ parvæ, articulis supra dentatis; pectus cinereum; segmentorum abdominalium margines postici supra fulvi, subtus testacei; tibiæ albæ, apice nigræ; alæ cinereæ, basi et apud costam luridæ.*

Fem. Black. Head with a long slender black shining callus between the eyes, covered elsewhere with testaceous tomentum; a

few yellow hairs beneath. Eyes with very minute facets. Lancets tawny. Antennæ small; first and second joints toothed above; third with a small acute tooth, which is slightly curved forward. Pectus gray, thinly clothed with yellow hairs. Hind borders of the abdominal segments tawny, testaceous beneath. Tibiæ white, black towards the tips. Wings gray, lurid at the base and along the costa; veins tawny, black towards the tips; fore branch of the cubital vein simple; externo-medial areolets open; subanal vein united to the anal at some little distance from the border; alulæ lurid. Halteres testaceous. Length of the body 8 lines; of the wings 15 lines.

a, *b*. Sikkim Himalaya, North India. From Dr. Hooker's collection.

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TABANUS EXPULSUS.

Fœm. *Cinereus; caput et pectus albido; palpi ferruginei; antennæ fulvæ, apice nigræ; thorax fusco bivittatus; abdomen nigrum, segmentorum marginibus posticis luteis, ventris lateribus fulvis, pedes fulvi, tarsis nigris, tibiis posticis nigro ciliatis; alæ cinereæ, apud costam fuscæ, venulis transversis nigro-fusco guttatis.*

Fem. Head with whitish tomentum behind and beneath, clothed beneath with whitish hairs; vertex brown; front tawny; callus elongate, capitate, black, shining. Eyes æneous, with very minute facets. Proboscis black. Palpi ferruginous. Antennæ tawny, curved upward; first joint produced above in front, and forming an acute angle; second very minute; third black above, moderately dilated, forming a slightly obtuse angle; fourth and following joints black. Thorax cinereous, with two indistinct pale brown stripes, which are not apparent in some aspects. Pectus with whitish tomentum, and in front with whitish hairs. Abdomen black; hind borders of the segments luteous; under side with two broad lateral tawny stripes. Legs tawny; coxæ black, with whitish tomentum; femora with whitish down, gray at the base; tarsi black, the posterior tawny at the base; fore tibiæ piceous towards the tips; hind tibiæ thickly fringed with very short black hairs. Wings gray, brown along the costa for about one-third of the breadth; transverse veinlets; tip of the radial vein, fork of the cubital vein and tip of its fore branch clouded with blackish brown; veins black; fore branch of the cubital vein forming an obtuse and

somewhat rounded angle, which emits no branch. Halteres tawny. Length of the body 6 lines; of the wings 12 lines.

a, *b*. Aneiteum, New Hebrides. From the Voyage of H.M.S. Herald. Collected by J. Macgillivray, Esq.

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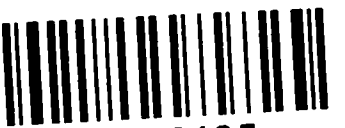
CHRYSOPS VULNERATUS.

Chrysops vulneratus, *Rondani, Ditteri Brasiliani*, 1848.

Brazil.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